Monthly and Seasonal Mean Analyses

March, April, May
1988

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Monthly and Seasonal Mean Analyses

March, April, May 1988

Mean fields obtained from the archive of operational analyses

Met O 20 (Dynamical Climatology Branch)
Meteorological Office
London Road
Bracknell
Berkshire RG12 2SZ

June 1988

Note: Permission to quote from this document should be obtained from the Assistant Director of the above Meteorological Branch.

Monthly and Seasonal Mean Analyses

Introduction

The archive of operational analyses contains a continuous record of global analyses every 12 hours (00 and 12 GMT) from May 1983 onwards. They are copies of the update analyses produced in the operational numerical weather prediction system using the 15-level model (Bell and Dickinson 1987). In this booklet there are presented monthly and seasonal mean fields computed from the archived analyses for a single season. Since a season spans three calendar months, there are four sections. Sections 1, 2 and 3 contain charts of the monthly mean fields for each month, and section 4 contains charts of the seasonal mean fields. The seasonal means are the means of the fields in the first three sections, weighted according to the number of days in each month.

Each section contains a set of charts for the northern and southern hemispheres and a set for the tropics. In each hemisphere, polar stereographic projects have been used to prepare a chart of pressure at mean sea level and composite charts showing both height (contours) and wind (vectors and isotachs) at 850, 500, 250 and 100 mb. In the tropics the charts are presented on a latitude–longitude projection encircling the globe in three sections covering the longitudes 0°–120°E, 120°E–120°W and 120°W–0°. This projection has been used to produce a series of charts of wind vectors and isotachs at 850 and 250 mb. On all charts, contours are depicted as solid lines, wind vectors as arrows and isotachs as dashed lines.

When archiving was first undertaken, for May 1983, global fields were stored according to their coefficients in a series of spherical harmonics up to a triangular truncation of T40 (Swinbank 1984). Since this is roughly equivalent to a latitude–longitude grid with a resolution of 4.5° by 4.5°, the conversion from the model's standard grid of 1.5° by 1.875° to the spectral representation results in some smoothing of the fields. Subsequently, a new method for storing the archived fields was developed as a result of discussions within the Working Group on the Development of the Operational Suite (WGDOS). This method uses a compressed digital coding of the original model field, on its standard latitude–longitude grid, but with fewer significant figures (Lowther 1986). It was implemented on 18 December 1985 in a limited version. After the inclusion of more fields, and following monitoring to ensure that the two representations (i.e. truncated spectral and compressed grid-point) of the archived analyses were consistent, the spectral archive was terminated on 31 October 1986.

The contents of the archives may be examined by consulting the computer data set 'M20.NARCHIND', where the tape number, file number and data set name for each archived day may be found. The fields in the spectral archive are stored in the format required by the post-processing (p-p) package. Details of the format and of the subroutines to be used for accessing the data are described in the manual for the p-p package. Some examples are shown in Swinbank (1984). The fields in the daily grid-point archive are stored as printfiles (Lowther 1986). A list of the fields in each of the two versions of the daily archive is given in the relevant documentation.

The monthly and seasonal mean fields have been computed from the spectral archive up to the end of October 1986. Thereafter, they have been computed from the grid-point archive. The mean fields are held as computer data sets in Met O 20, in spectral or grid-point format, as appropriate, and are available for general use. Means for each month and season over three years of the spectral archive are also available. The mean fields that are held are as follows:

Field		Pressure level (mb)
Westerly wind component	(m/s)	1000*, 850, 700, 500, 400, 300, 250, 200, 150, 100, 70, 50
Southerly wind component	(m/s)	
Height	(dam)	
Temperature	(K)	
Relative humidity	(%)	1000*, 850, 700, 500, 400, 300
Pressure at mean sea level	(mb)	

* Fields at 1000 mb are held in the spectral archive. In the grid-point archive this level has been omitted and fields at 950 mb are held instead.

References

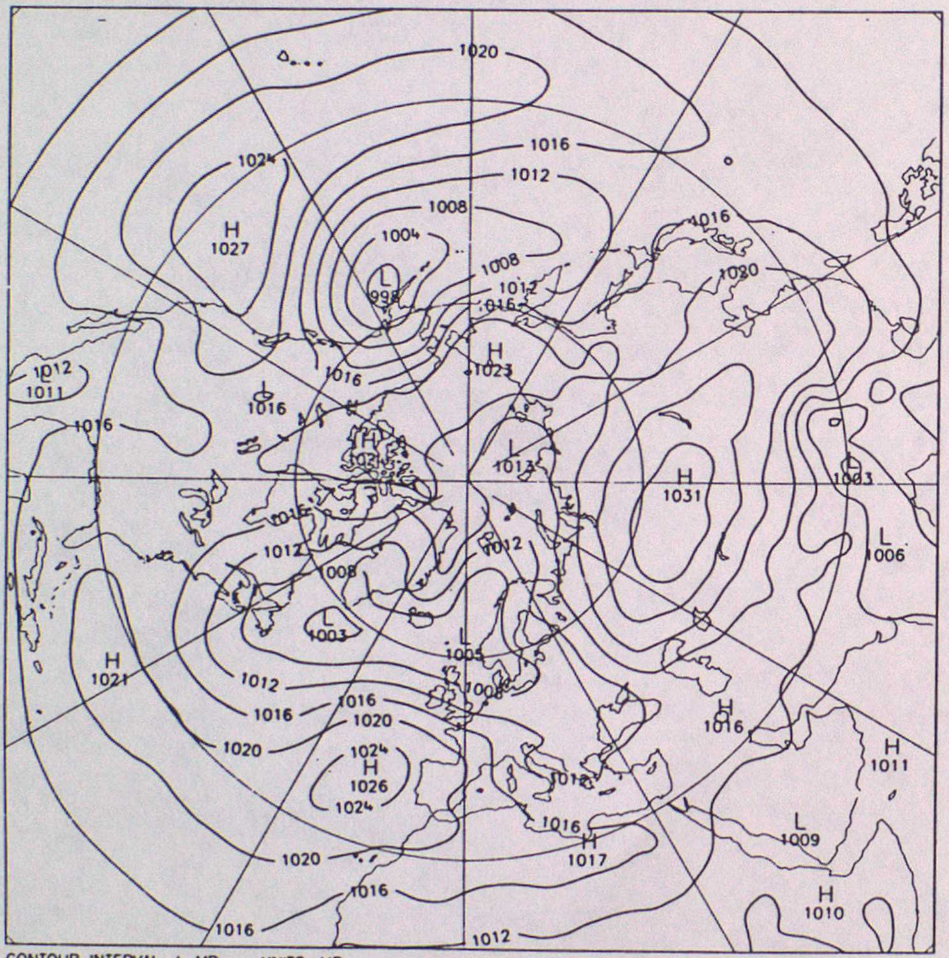
Bell, R.S. and Dickinson, A. 1987 The Meteorological Office operational numerical weather prediction system, Meteorological Office Scientific Paper No. 41, Met.O.979, HMSO.

Lowther, D. 1986 WGDOS Printfile Archive, Operational NWP Scheme, Documentation Paper No. 9.1, Met O 2b, Meteorological Office, Bracknell.

Swinbank, R. 1984 A system to archive operational analyses for research purposes. Met O 20 Technical Note No. II/218. Meteorological Office, Bracknell.

MARCH
1988

OPERATIONAL ARCHIVE MEANS. MARCH 1988
PMSL
AVERAGE FROM 0Z ON 1/3/1988 DAY 61 TO 12Z ON 31/3/1988 DAY 91
SEA LEVEL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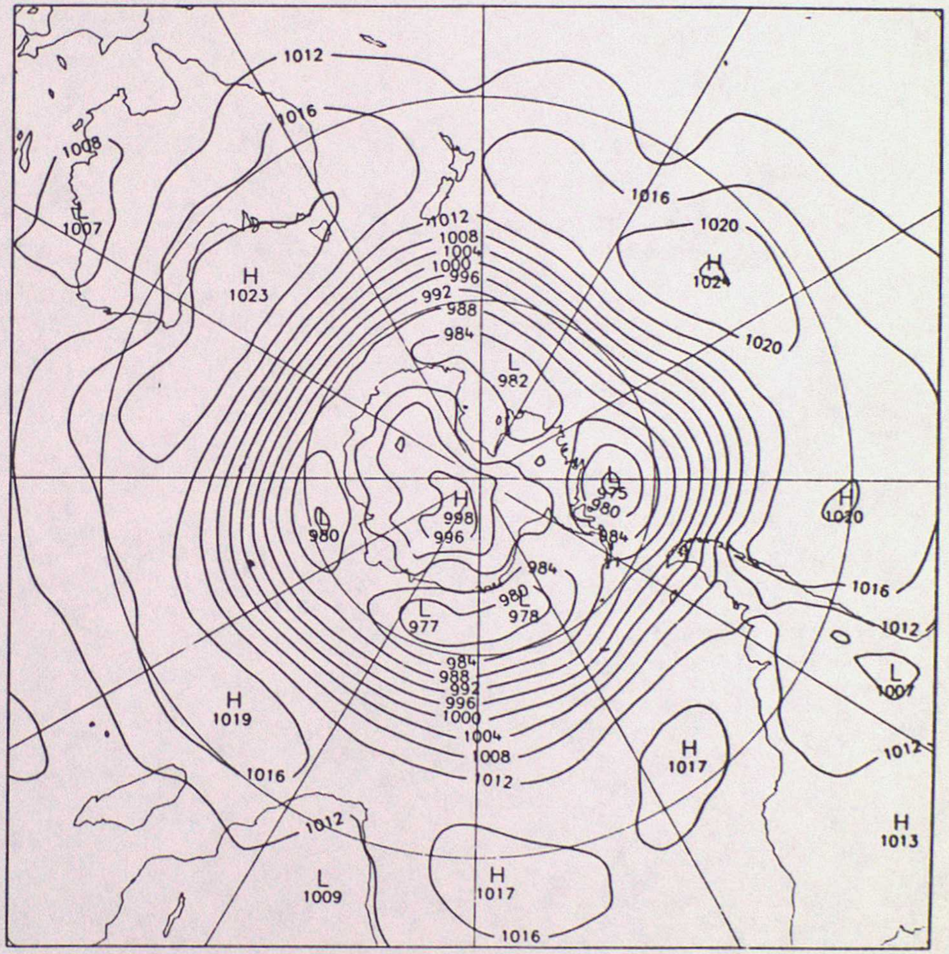
CONTOUR INTERVAL: 4 MB UNITS: MB

OPERATIONAL ARCHIVE MEANS. MARCH 1988
PMSL
AVERAGE FROM 0Z ON 1/3/1988 DAY 61 TO 12Z ON 31/3/1988 DAY 91
SEA LEVEL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CONTOUR INTERVAL: 4 MB UNITS: MB

OPERATIONAL ARCHIVE MEANS. MARCH 1988
HEIGHTS, WIND ARROWS AND ISOTACHS.
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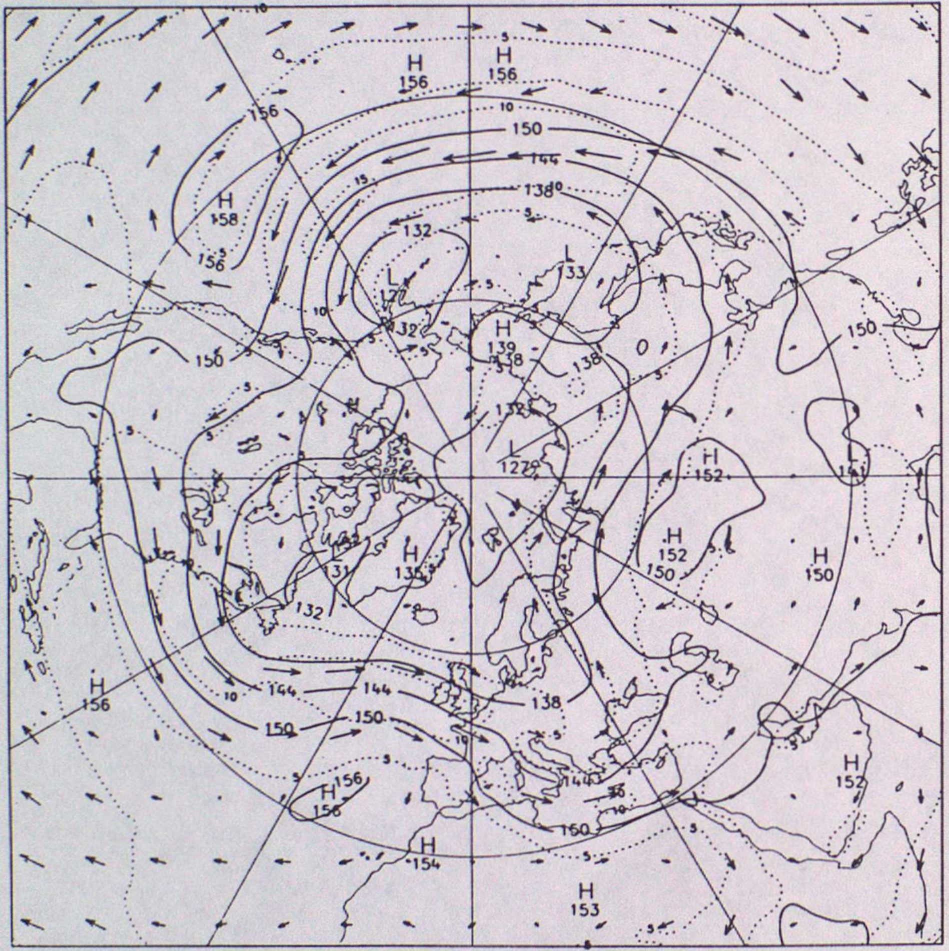
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→ REPRESENTS 10 M/S CONTOUR INTERVAL: 60 M UNITS: 10 M

OPERATIONAL ARCHIVE MEANS. MARCH 1988
HEIGHTS, WIND ARROWS AND ISOTACHS.
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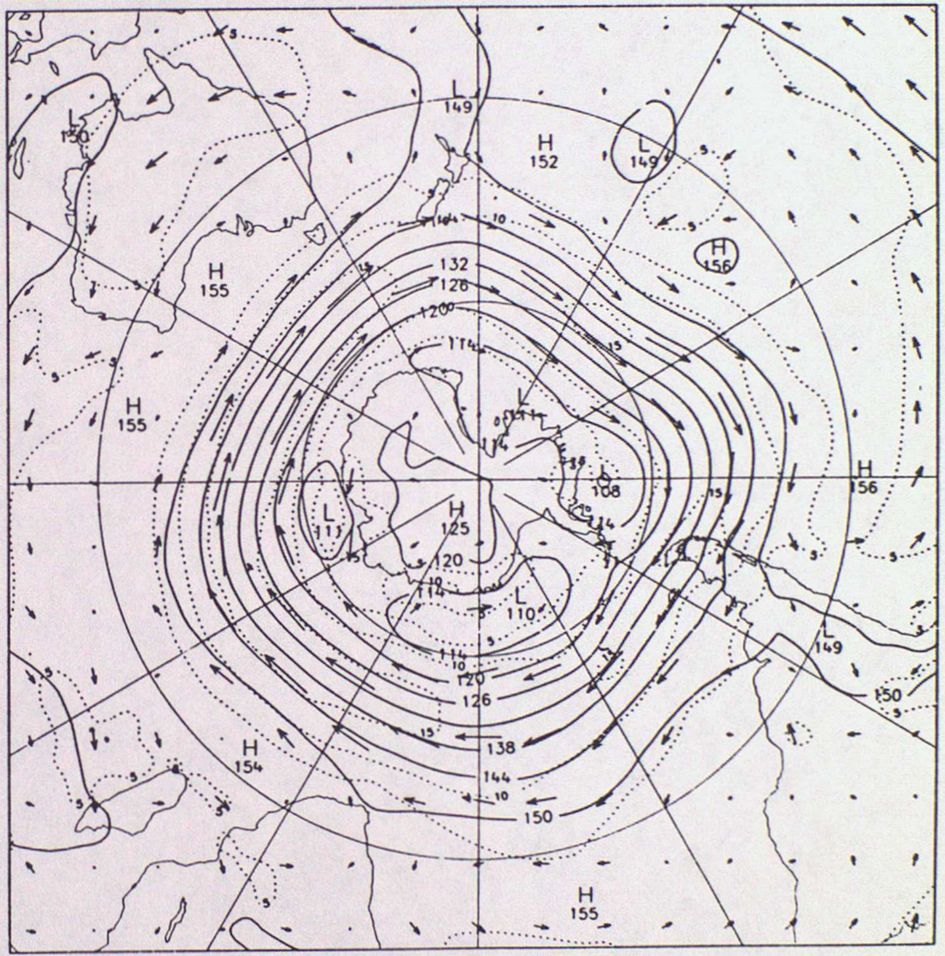
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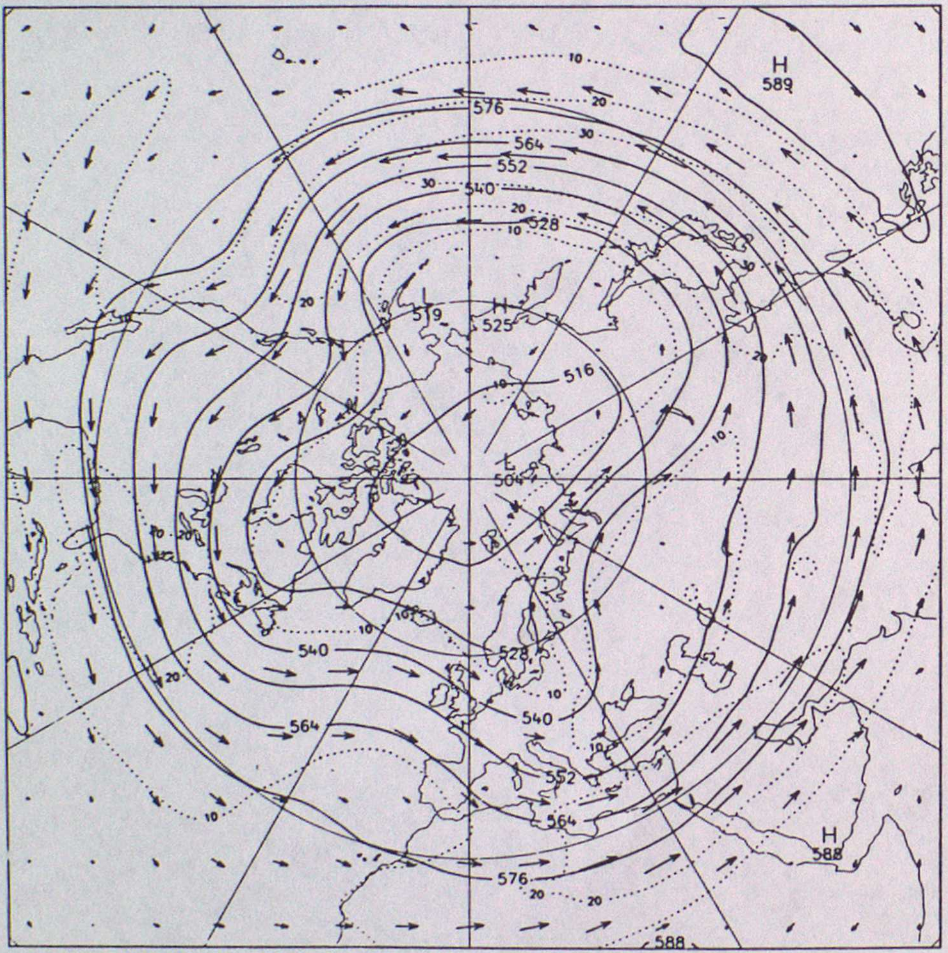
→ REPRESENTS 10 M/S CONTOUR INTERVAL: 60 M UNITS: 10 M

OPERATIONAL ARCHIVE MEANS. MARCH 1988
HEIGHTS, WIND ARROWS AND ISOTACHS.
AVERAGE FROM 0Z ON 1/3/1988 DAY 61 TO 12Z ON 31/3/1988 DAY 91
LEVEL: 500 MB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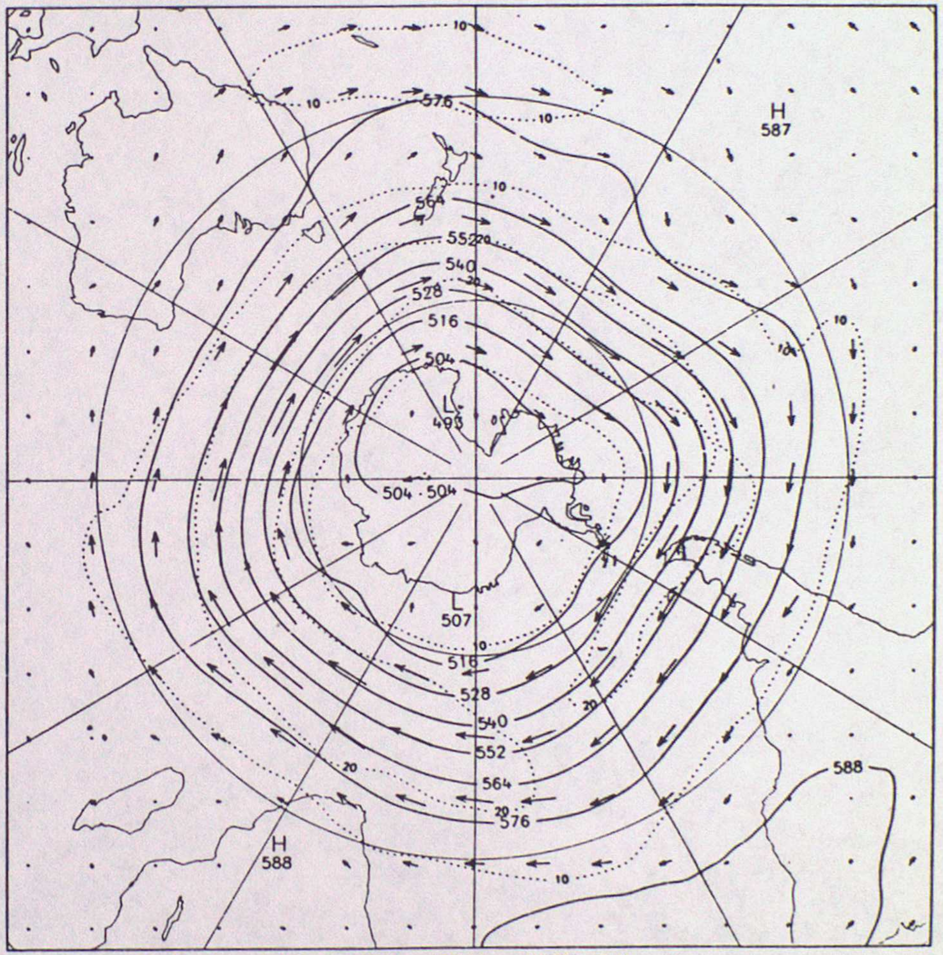
OPERATIONAL ARCHIVE MEANS. MARCH 1988
HEIGHTS, WIND ARROWS AND ISOTACHS.
AVERAGE FROM 0Z ON 1/3/1988 DAY 61 TO 12Z ON 31/3/1988 DAY 91
LEVEL: 500 MB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→ REPRESENTS 20 M/S CONTOUR INTERVAL: 120 M UNITS: 10 M

OPERATIONAL ARCHIVE MEANS. MARCH 1988
HEIGHTS, WIND ARROWS AND ISOTACHS.
AVERAGE FROM 0Z ON 1/3/1988 DAY 61 TO 12Z ON 31/3/1988 DAY 91
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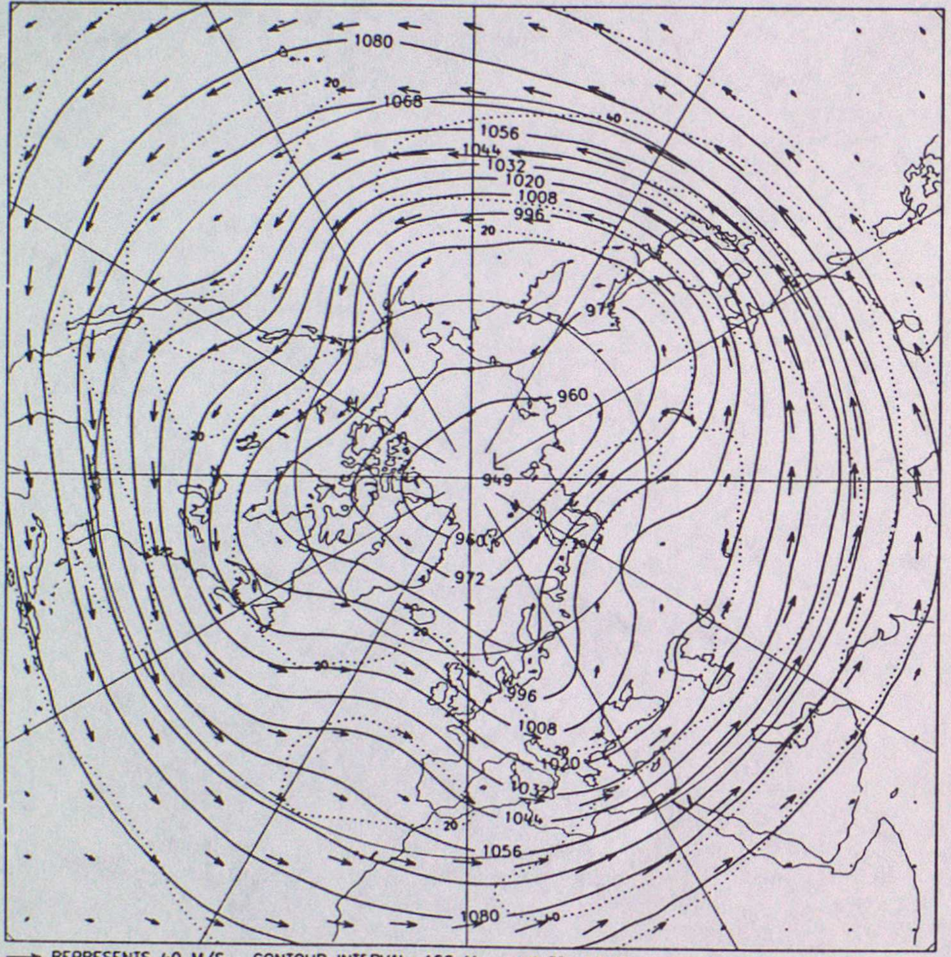
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40

→ REPRESENTS 40 M/S CONTOUR INTERVAL: 120 M UNITS: 10 M

OPERATIONAL ARCHIVE MEANS. MARCH 1988
HEIGHTS, WIND ARROWS AND ISOTACHS.
AVERAGE FROM 0Z ON 1/3/1988 DAY 61 TO 12Z ON 31/3/1988 DAY 91
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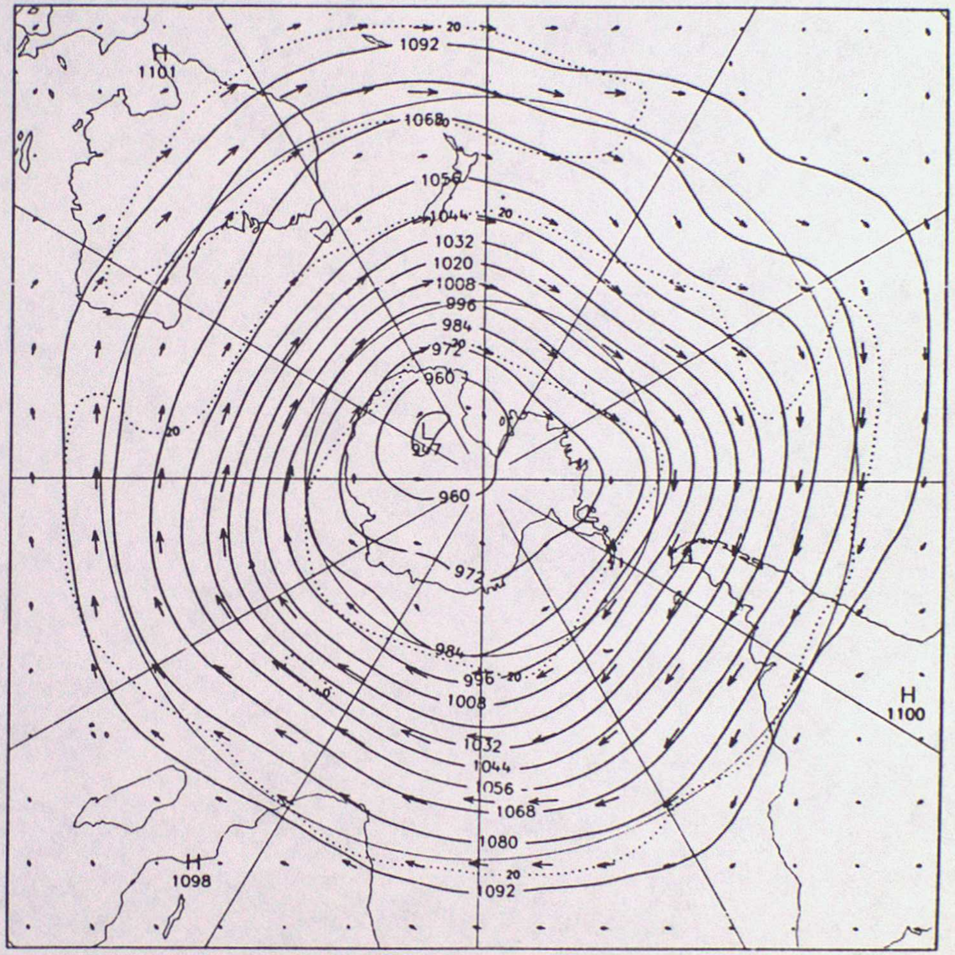
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1100
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→ REPRESENTS 40 M/S CONTOUR INTERVAL: 120 M UNITS: 10 M

OPERATIONAL ARCHIVE MEANS. MARCH 1988
HEIGHTS, WIND ARROWS AND ISOTACHS.
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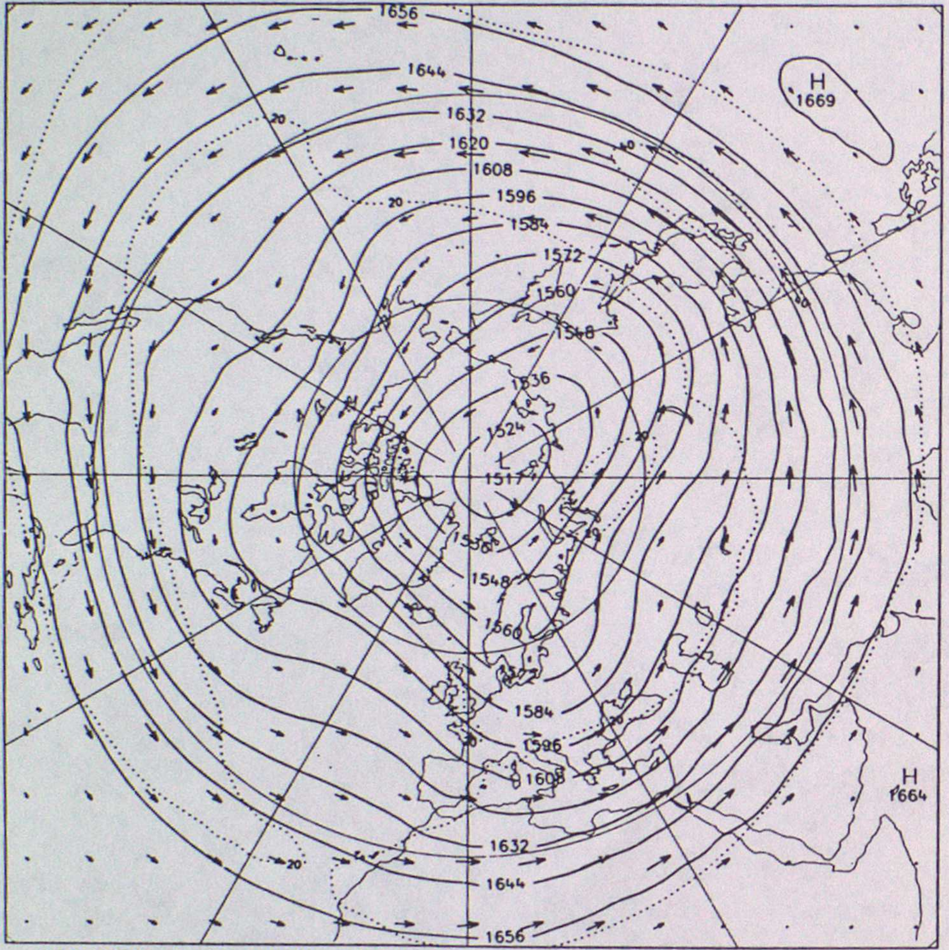
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→ REPRESENTS 40 M/S CONTOUR INTERVAL: 120 M UNITS: 10 M

OPERATIONAL ARCHIVE MEANS. MARCH 1988
HEIGHTS, WIND ARROWS AND ISOTACHS.
AVERAGE FROM 0Z ON 1/3/1988 DAY 61 TO 12Z ON 31/3/1988 DAY 91
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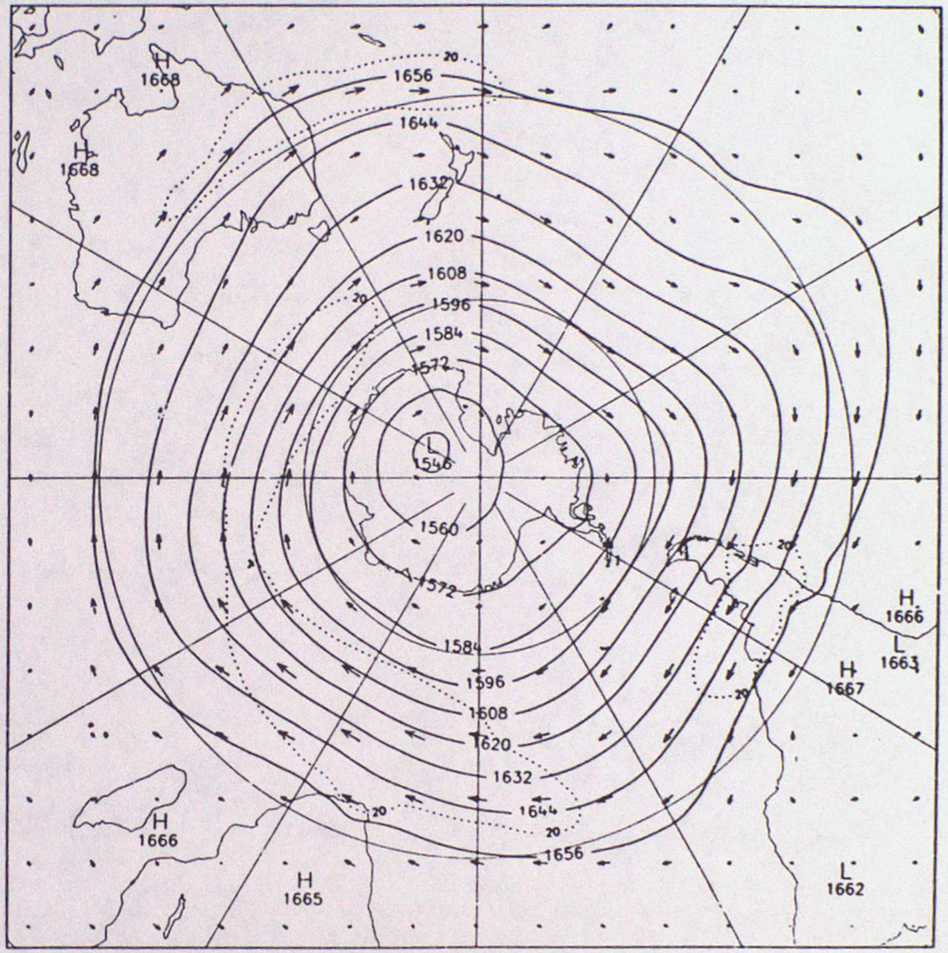
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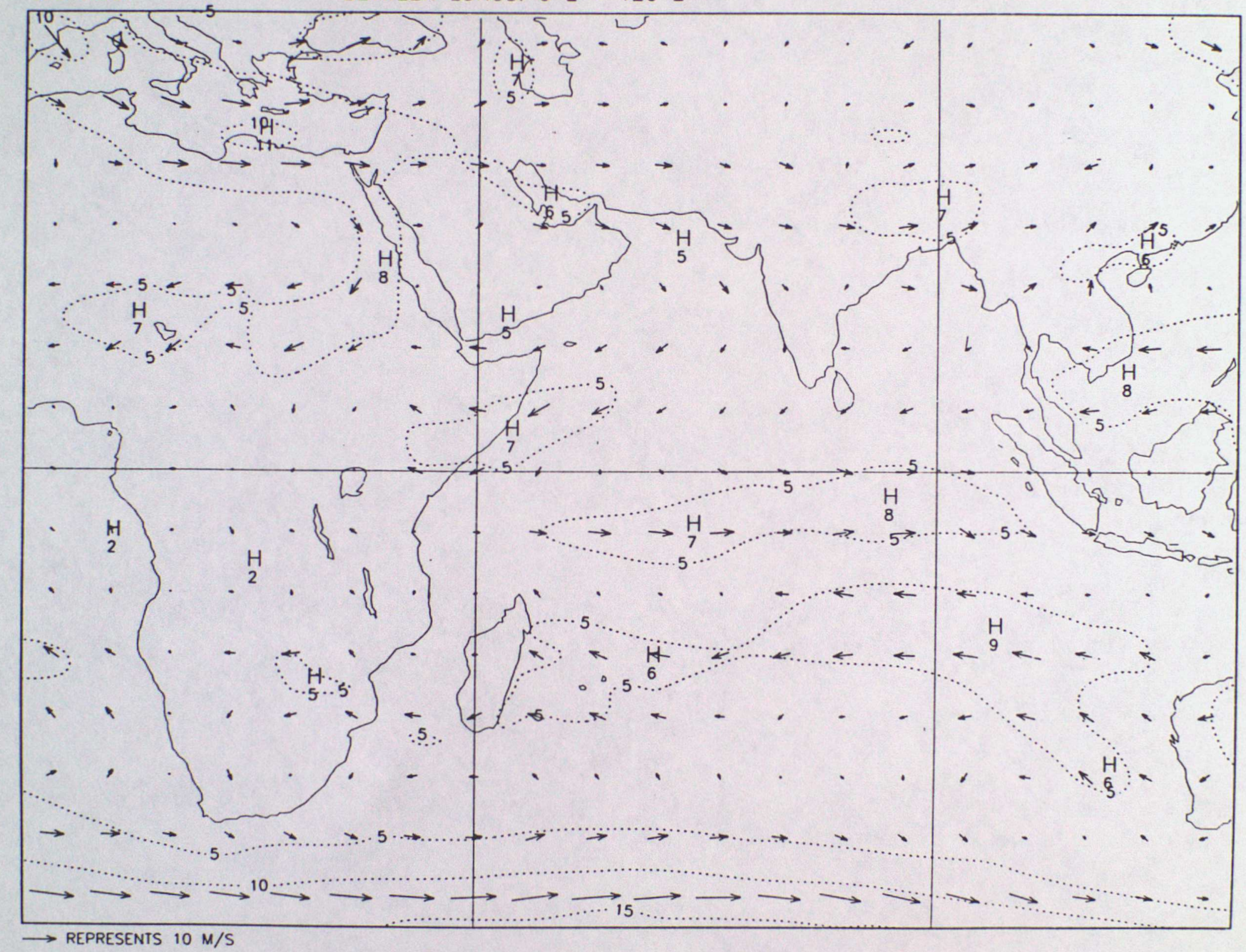
→ REPRESENTS 40 M/S CONTOUR INTERVAL: 120 M UNITS: 10 M

OPERATIONAL ARCHIVE MEANS.   MARCH   1988
WIND ARROWS AND ISOTACHS   BETWEEN LATS. 45 N - 45 S.
AVERAGE FROM 0Z ON 1/3/1988 DAY 61 TO 12Z ON 31/3/1988 DAY 91
850 MBS.   BETWEEN LONGS. 0 E - 120 E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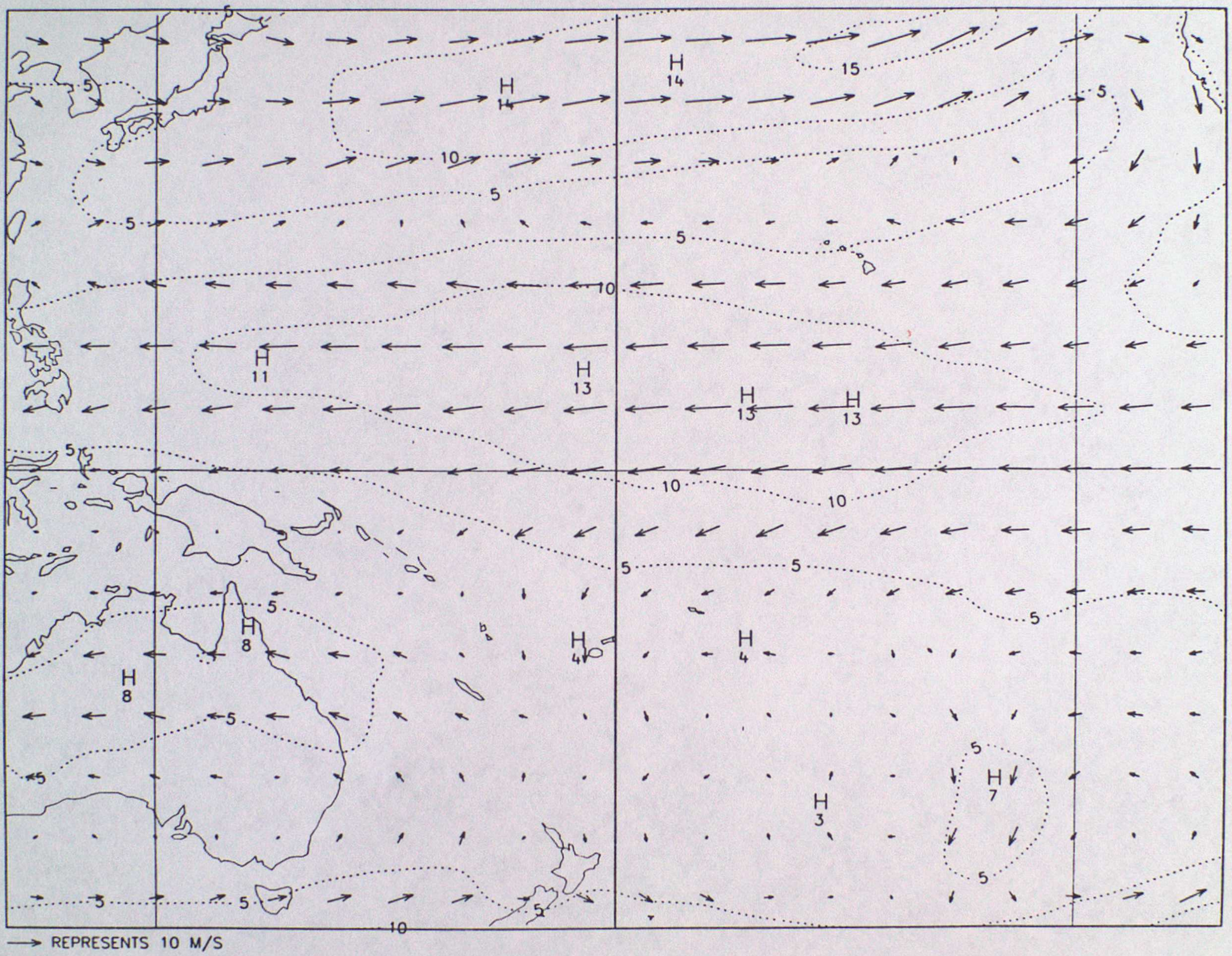
15
→ REPRESENTS 10 M/S

OPERATIONAL ARCHIVE MEANS.   MARCH   1988
WIND ARROWS AND ISOTACHS BETWEEN LATS. 45 N - 45 S.
AVERAGE FROM 0Z ON 1/3/1988 DAY 61 TO 12Z ON 31/3/1988 DAY 91
850 MBS.   BETWEEN LONGS. 120 E - 120 W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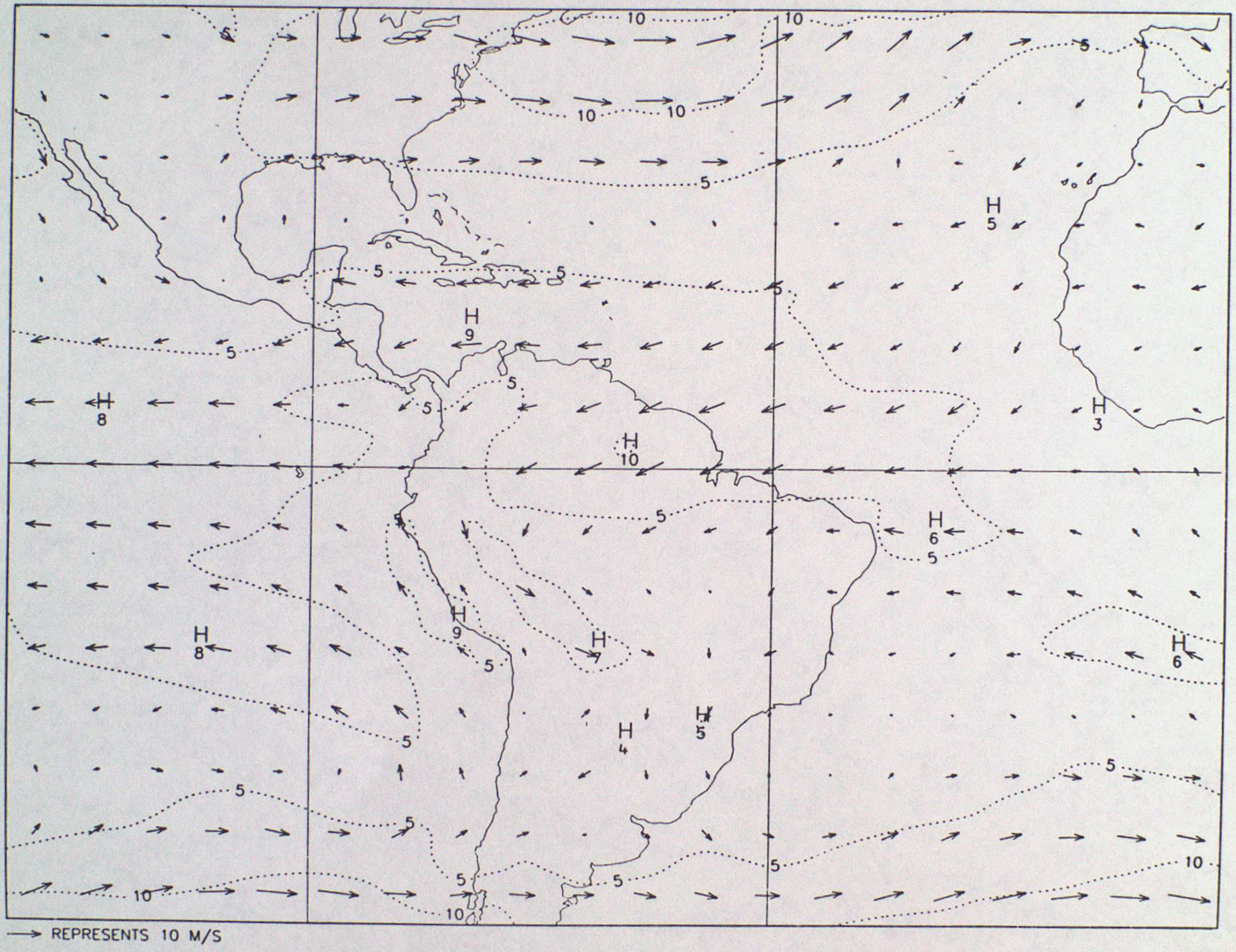
→ REPRESENTS 10 M/S

OPERATIONAL ARCHIVE MEANS. MARCH 1988
WIND ARROWS AND ISOTACHS BETWEEN LATS. 45 N - 45 S.
AVERAGE FROM 0Z ON 1/3/1988 DAY 61 TO 12Z ON 31/3/1988 DAY 91
850 MBS. BETWEEN LONGS. 120 W - 0 W



OPERATIONAL ARCHIVE MEANS. MARCH 1988
WIND ARROWS AND ISOTACHS BETWEEN LATS. 45 N - 45 S.
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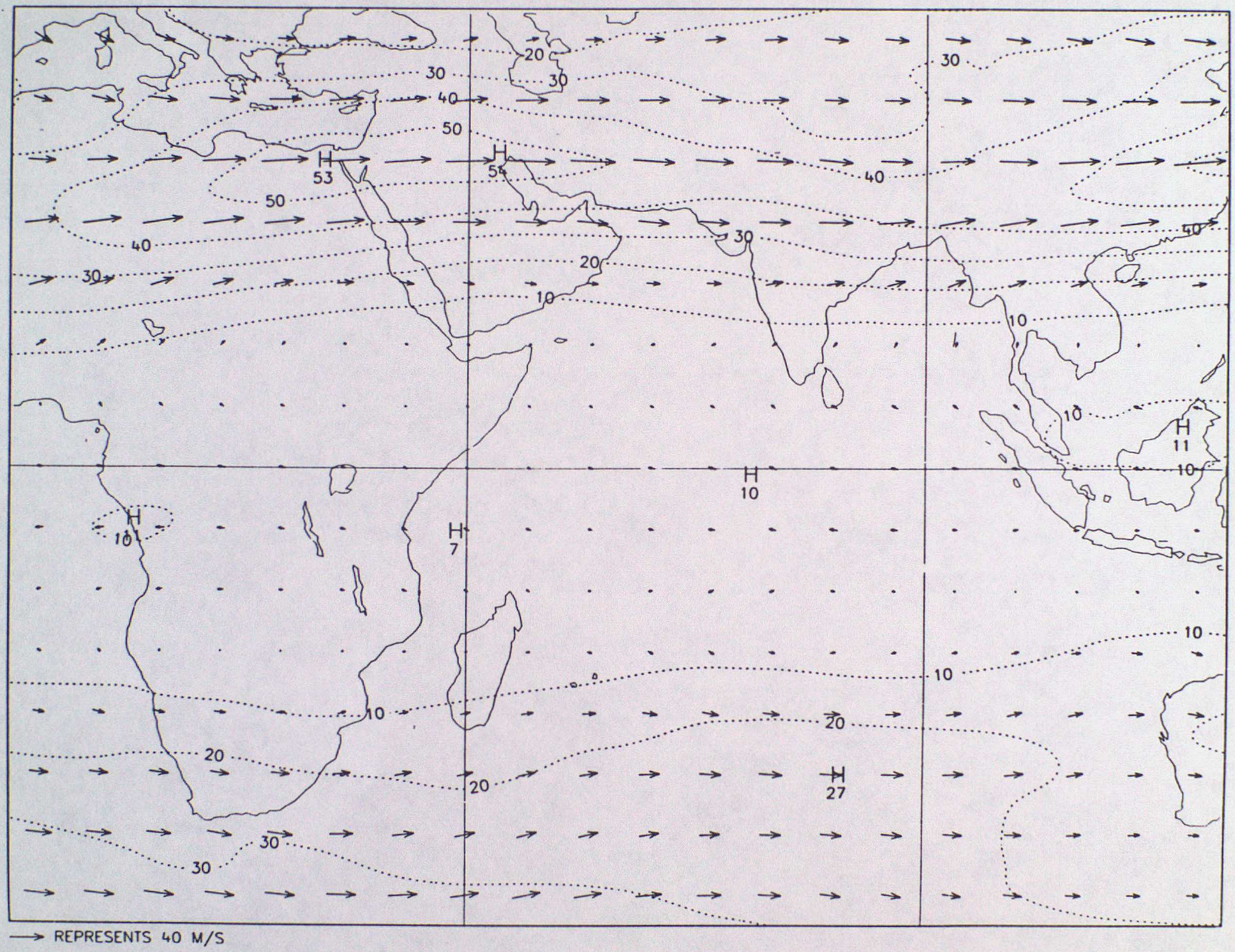

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REPRESENTS 40 M/S

OPERATIONAL ARCHIVE MEANS.   MARCH   1988
WIND ARROWS AND ISOTACHS   BETWEEN LATS. 45 N - 45 S.
AVERAGE FROM   0Z ON 1/3/1988 DAY 61 TO 12Z ON 31/3/1988 DAY 91
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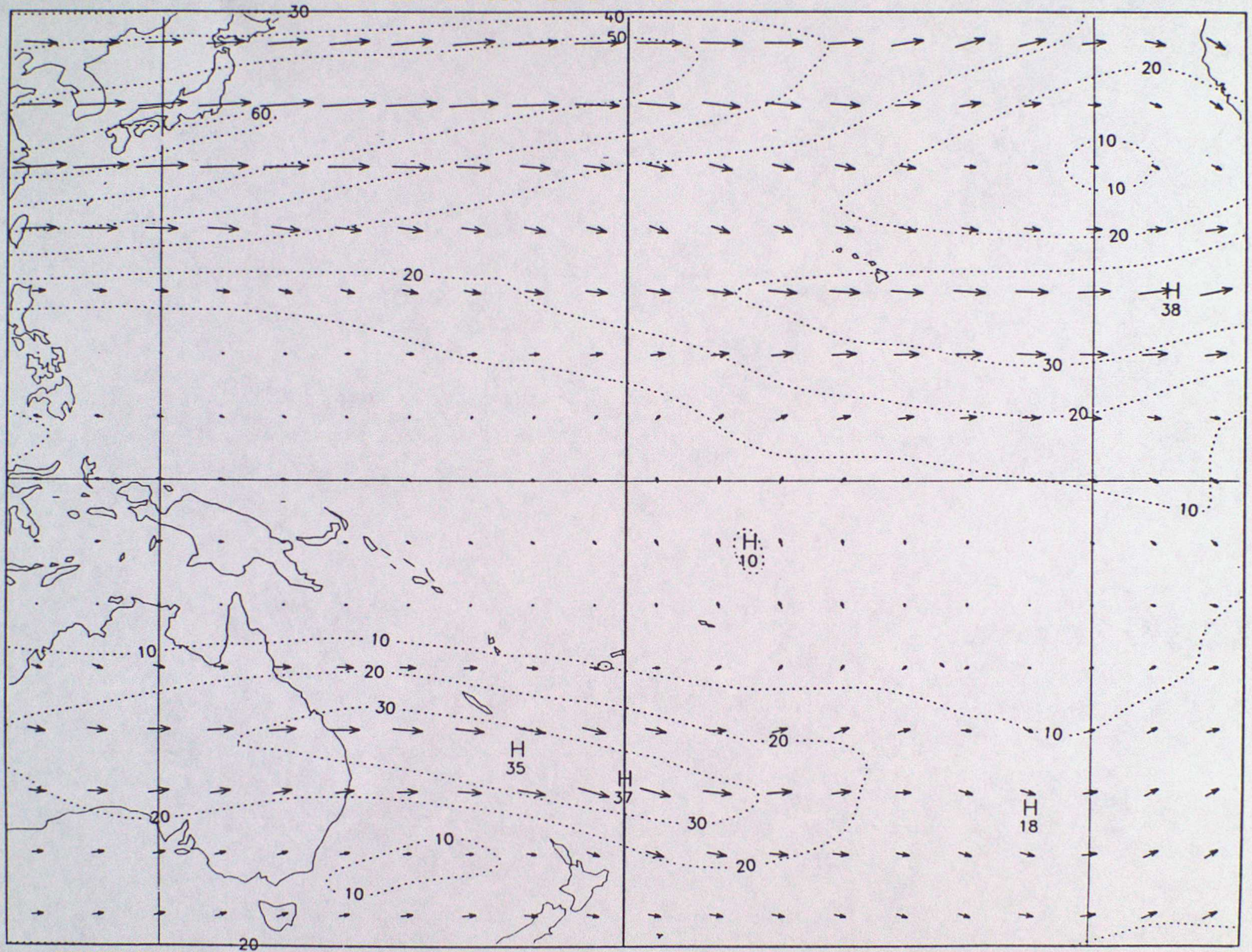
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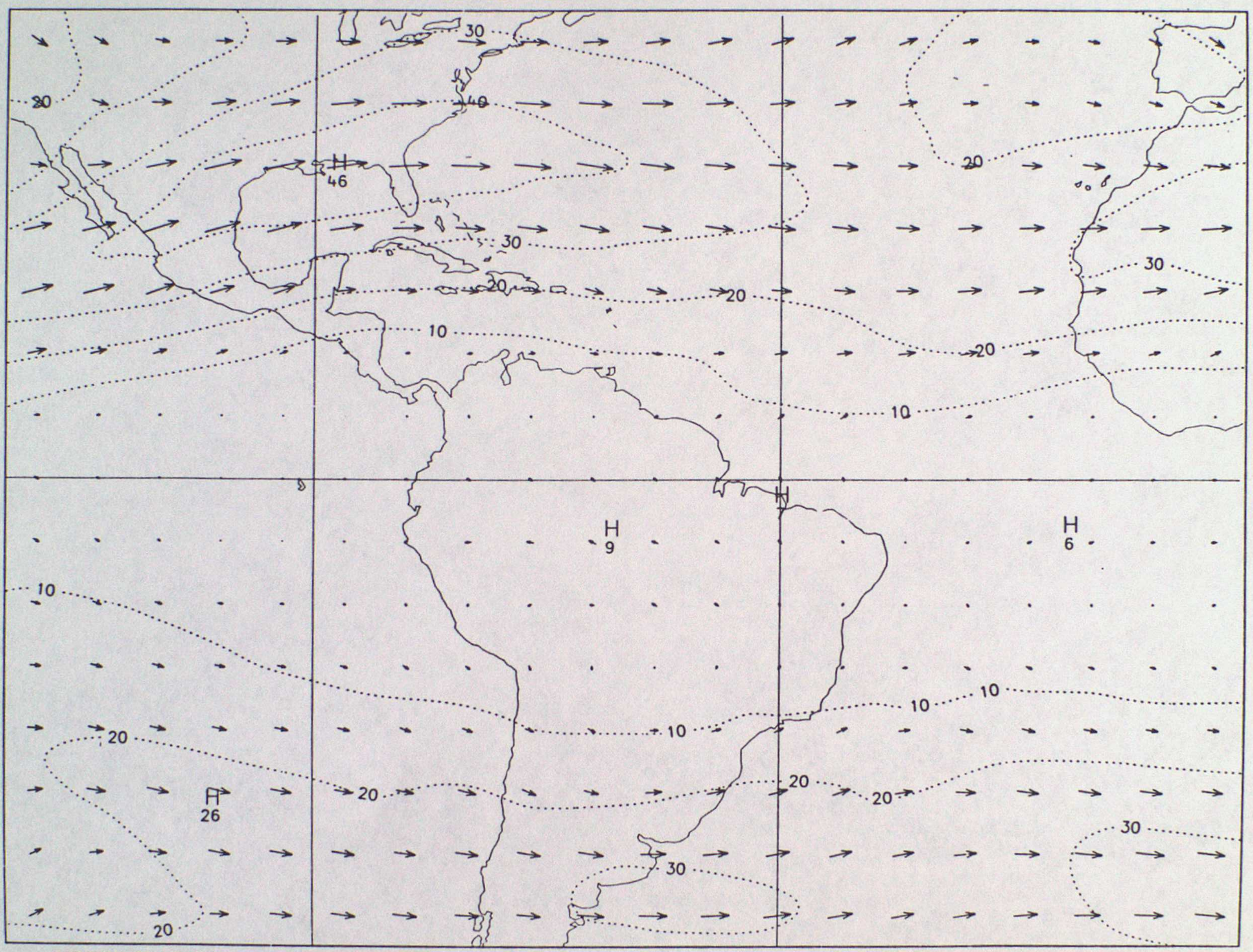
→ REPRESENTS 40 M/S

OPERATIONAL ARCHIVE MEANS. MARCH 1988
WIND ARROWS AND ISOTACHS BETWEEN LATS. 45 N - 45 S.
AVERAGE FROM 0Z ON 1/3/1988 DAY 61 TO 12Z ON 31/3/1988 DAY 91
250 MBS. BETWEEN LONGS. 120 W - 0 W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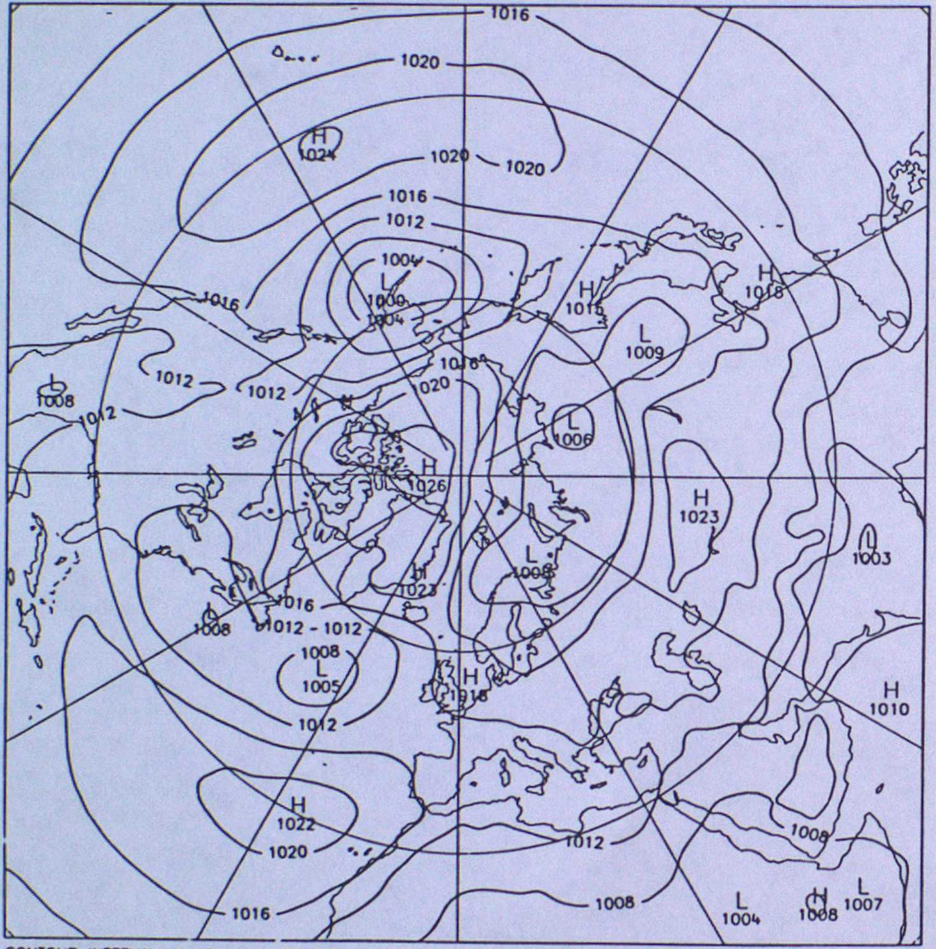
→ REPRESENTS 40 M/S

APRIL
1988

OPERATIONAL ARCHIVE MEANS. APRIL 1988
PMSL
AVERAGE FROM 0Z ON 1/4/1988 DAY 92 TO 12Z ON 30/4/1988 DAY 121
SEA LEVEL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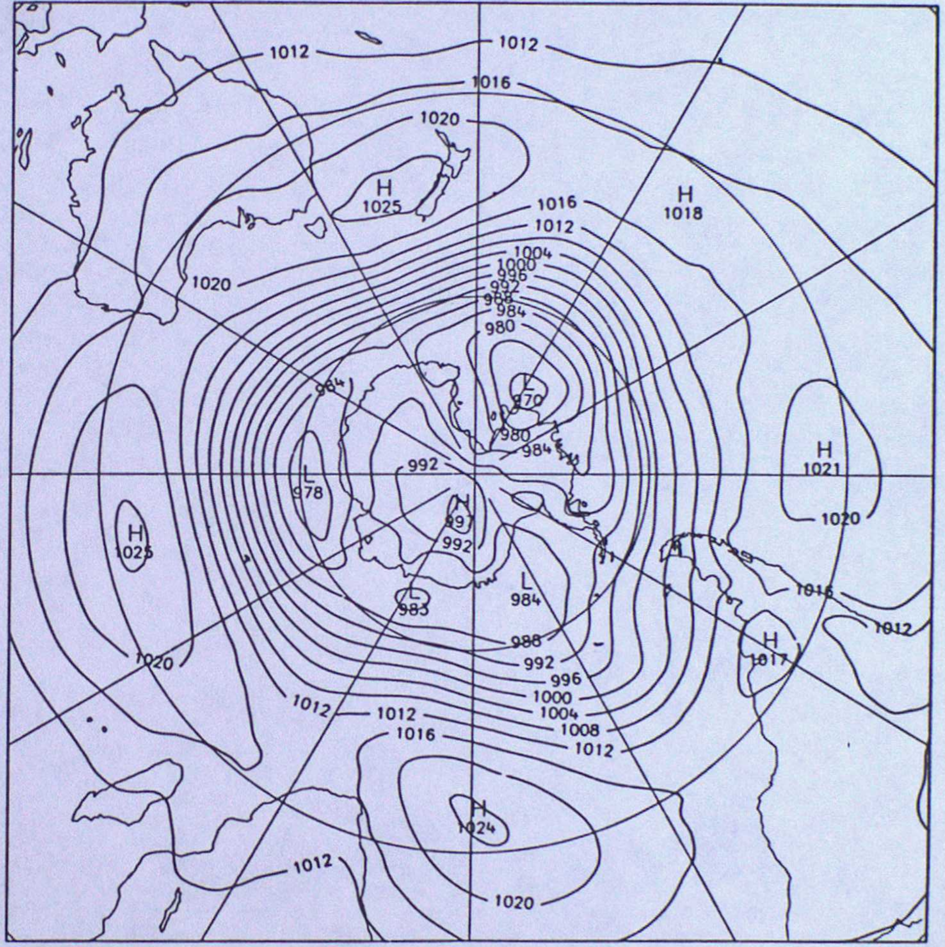
CONTOUR INTERVAL: 4 MB UNITS: MB

OPERATIONAL ARCHIVE MEANS. APRIL 1988
PMSL
AVERAGE FROM 0Z ON 1/4/1988 DAY 92 TO 12Z ON 30/4/1988 DAY 121
SEA LEVEL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CONTOUR INTERVAL: 4 MB UNITS: MB

OPERATIONAL ARCHIVE MEANS. APRIL 1988
HEIGHTS, WIND ARROWS AND ISOTACHS.
AVERAGE FROM 0Z ON 1/4/1988 DAY 92 TO 12Z ON 30/4/1988 DAY 121
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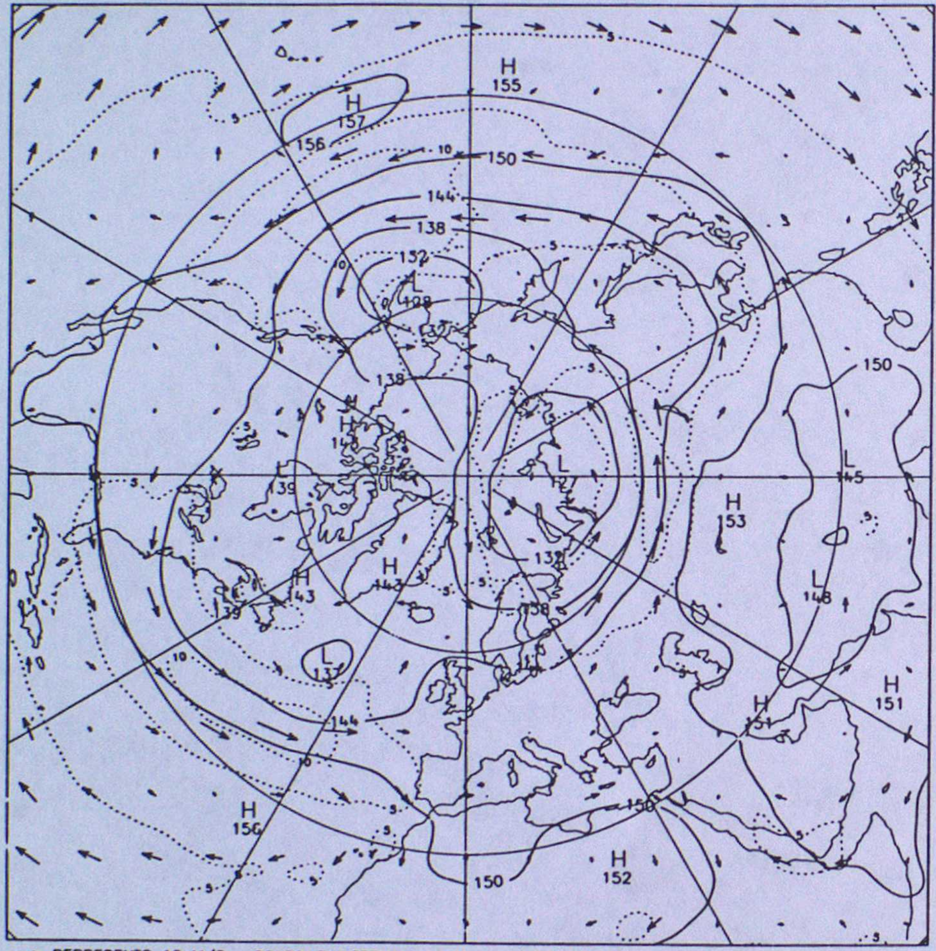
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10

→ REPRESENTS 10 M/S CONTOUR INTERVAL: 60 M UNITS: 10 M

OPERATIONAL ARCHIVE MEANS. APRIL 1988
HEIGHTS, WIND ARROWS AND ISOTACHS.
AVERAGE FROM 0Z ON 1/4/1988 DAY 92 TO 12Z ON 30/4/1988 DAY 121
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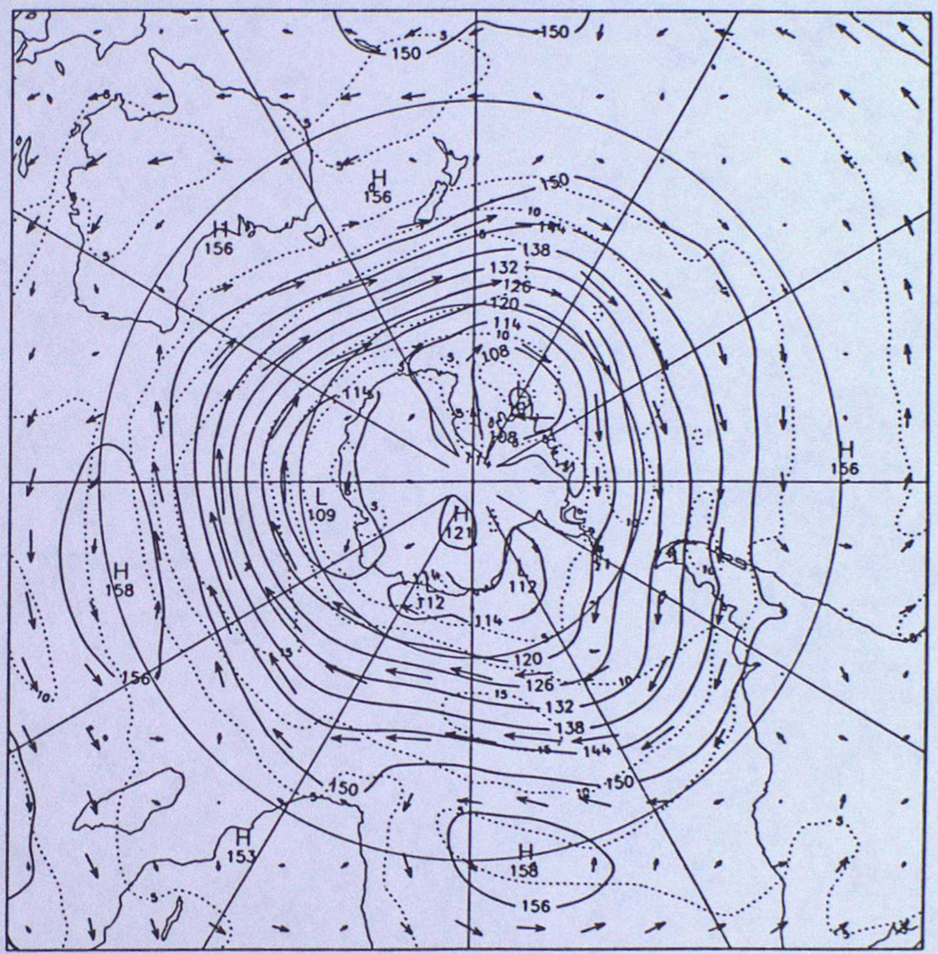
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→ REPRESENTS 10 M/S CONTOUR INTERVAL: 60 M UNITS: 10 M

OPERATIONAL ARCHIVE MEANS. APRIL 1988
HEIGHTS, WIND ARROWS AND ISOTACHS.
AVERAGE FROM 0Z ON 1/4/1988 DAY 92 TO 12Z ON 30/4/1988 DAY 121
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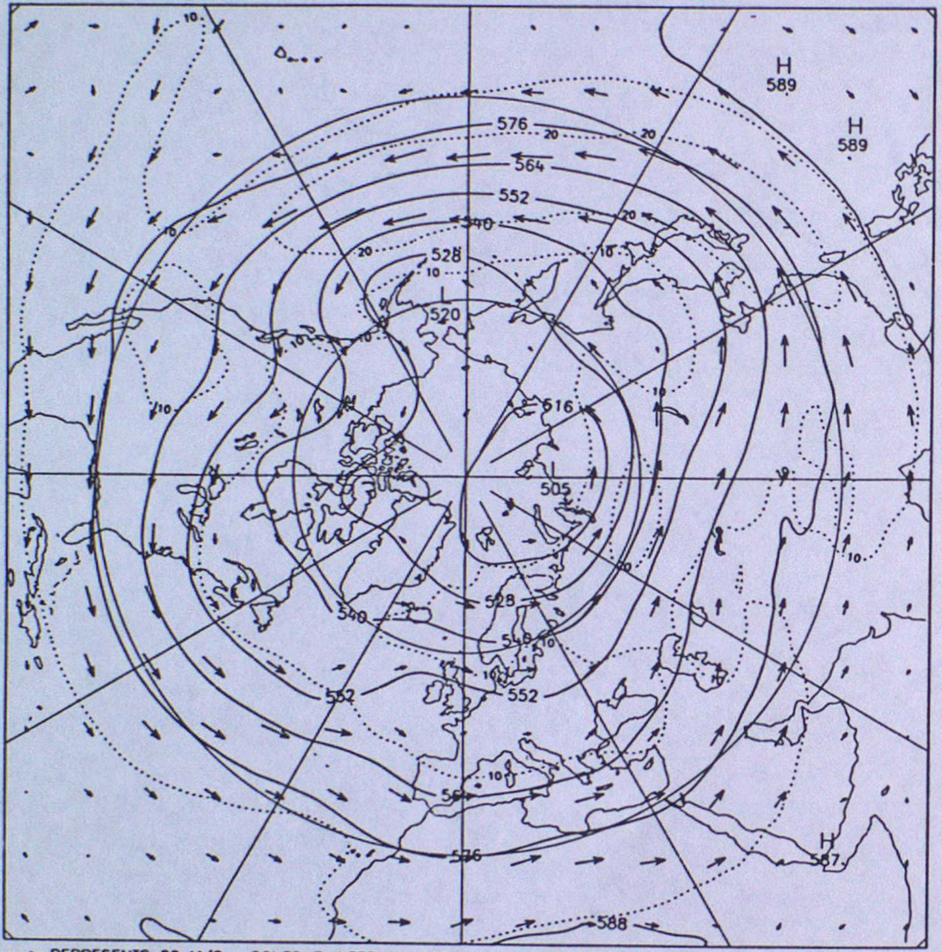
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20

→ REPRESENTS 20 M/S CONTOUR INTERVAL: 120 M UNITS: 10 M

OPERATIONAL ARCHIVE MEANS. APRIL 1988
HEIGHTS, WIND ARROWS AND ISOTACHS.
AVERAGE FROM 0Z ON 1/4/1988 DAY 92 TO 12Z ON 30/4/1988 DAY 121
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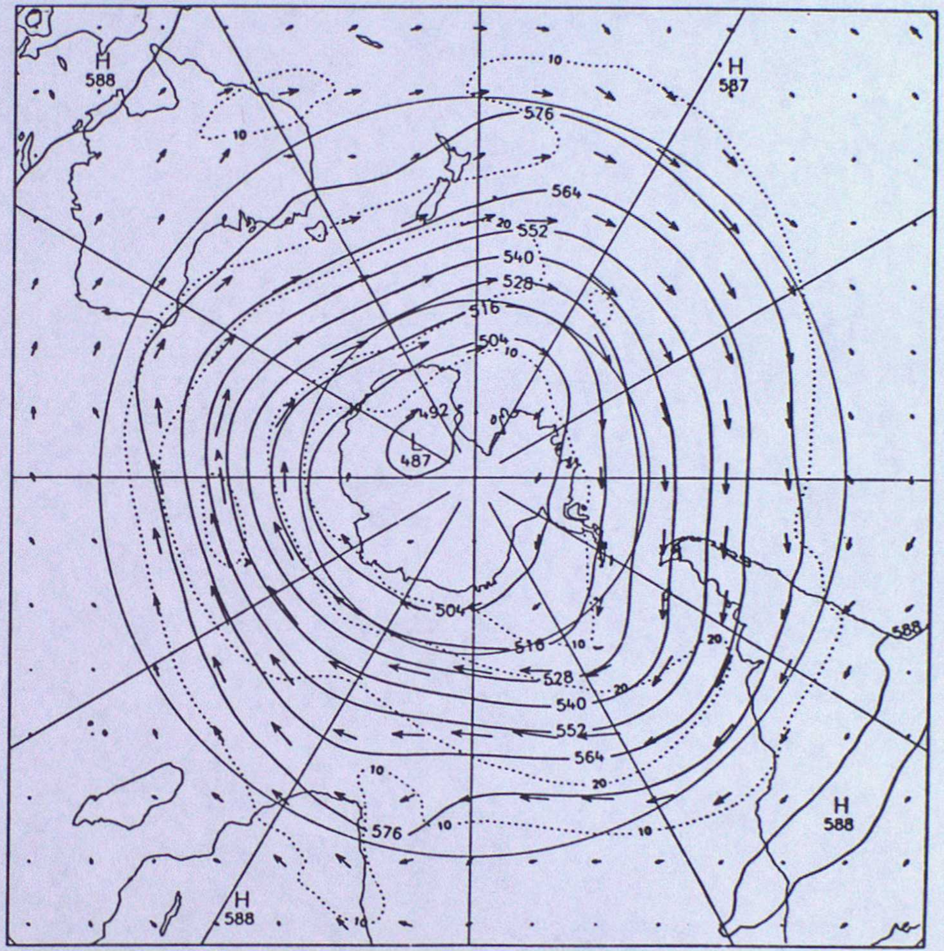
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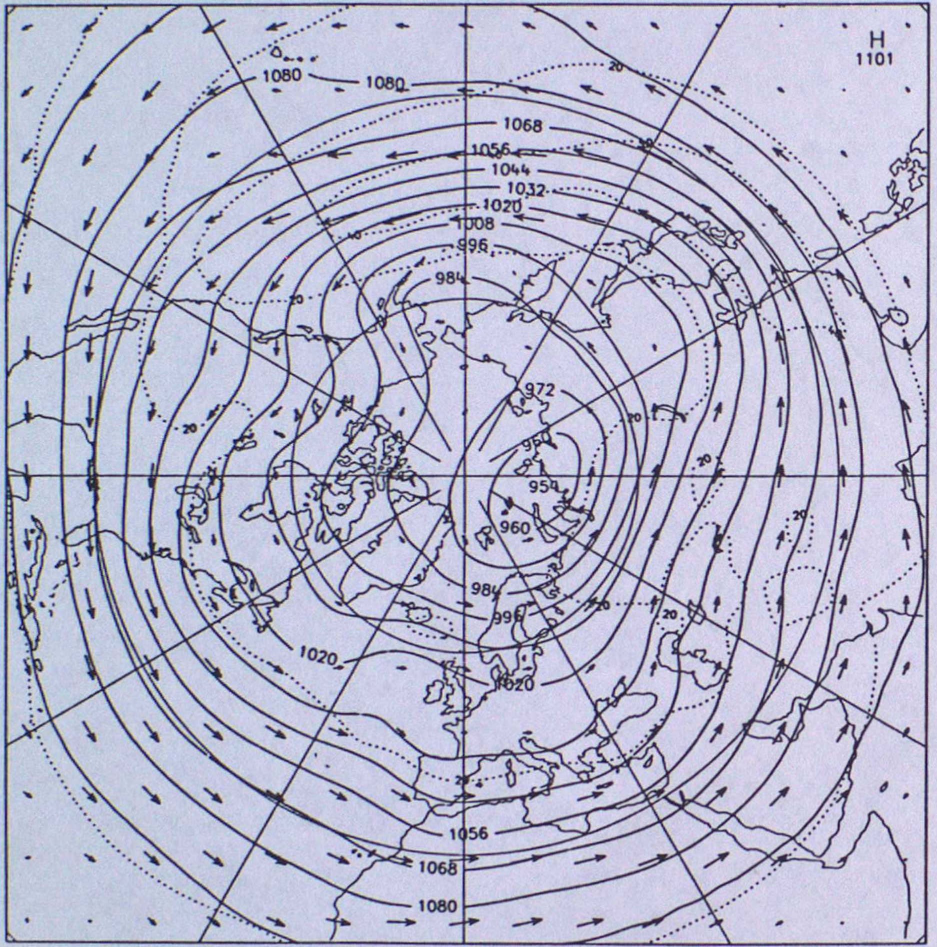
→ REPRESENTS 20 M/S CONTOUR INTERVAL: 120 M UNITS: 10 M

OPERATIONAL ARCHIVE MEANS. APRIL 1988
HEIGHTS, WIND ARROWS AND ISOTACHS.
AVERAGE FROM 0Z ON 1/4/1988 DAY 92 TO 12Z ON 30/4/1988 DAY 121
LEVEL: 250 MB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1068
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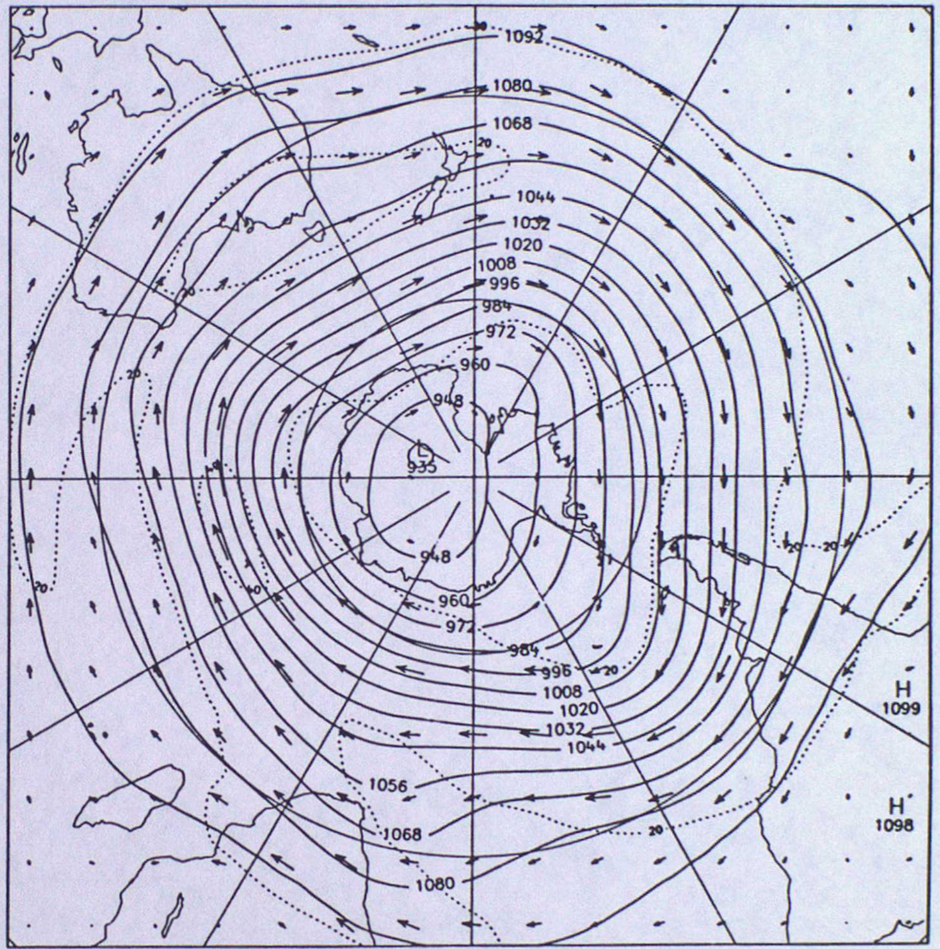
20
40

→ REPRESENTS 40 M/S CONTOUR INTERVAL: 120 M UNITS: 10 M

OPERATIONAL ARCHIVE MEANS. APRIL 1988
HEIGHTS, WIND ARROWS AND ISOTACHS.
AVERAGE FROM 0Z ON 1/4/1988 DAY 92 TO 12Z ON 30/4/1988 DAY 121
LEVEL: 250 MB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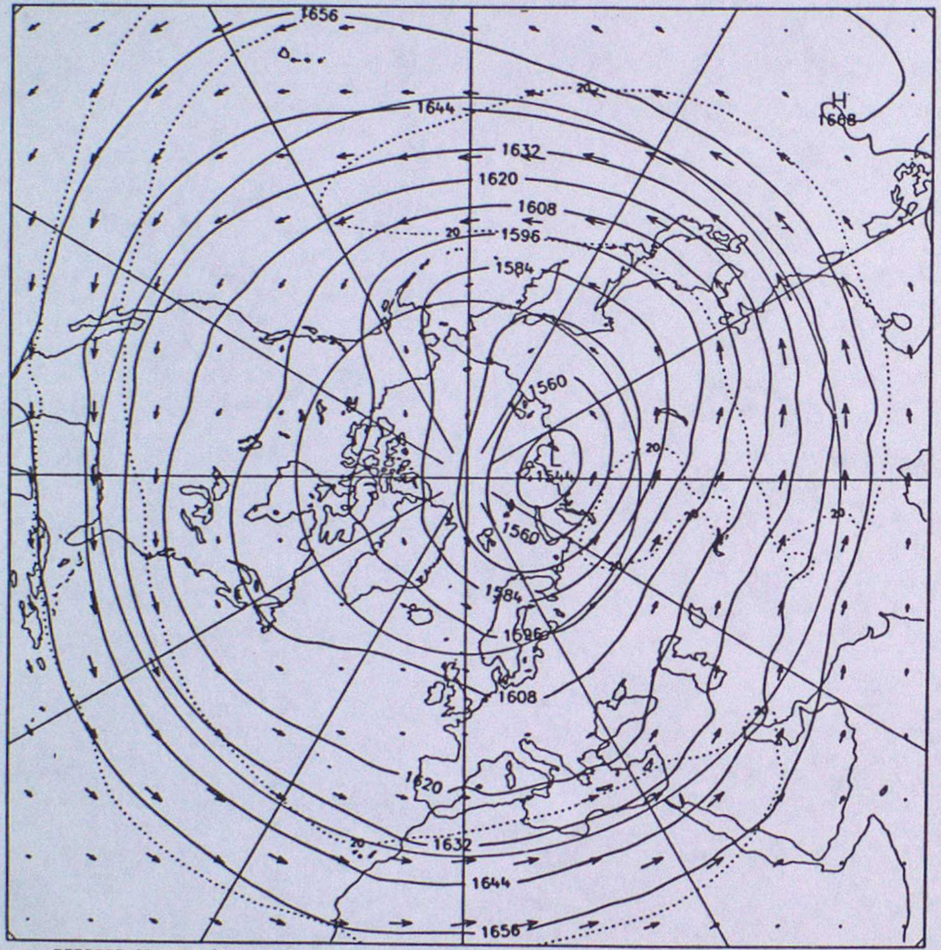
→ REPRESENTS 40 M/S CONTOUR INTERVAL: 120 M UNITS: 10 M

OPERATIONAL ARCHIVE MEANS. APRIL 1988
HEIGHTS, WIND ARROWS AND ISOTACHS.
AVERAGE FROM 0Z ON 1/4/1988 DAY 92 TO 12Z ON 30/4/1988 DAY 121
LEVEL: 100 MB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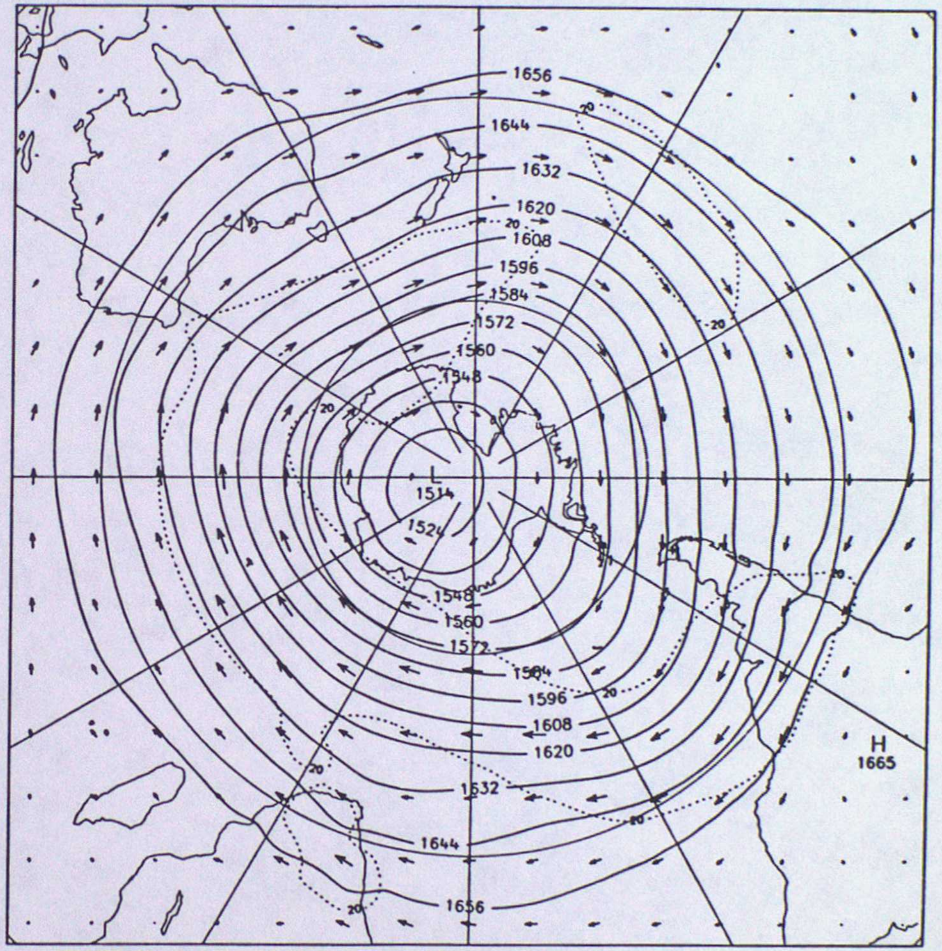
1620
1608
1596
1584
1560
L
1544
1560
1584
1596
1608
1620
1632
1644
1656
H
1668
20
10

→ REPRESENTS 40 M/S CONTOUR INTERVAL: 120 M UNITS: 10 M

OPERATIONAL ARCHIVE MEANS. APRIL 1988
HEIGHTS, WIND ARROWS AND ISOTACHS.
AVERAGE FROM 0Z ON 1/4/1988 DAY 92 TO 12Z ON 30/4/1988 DAY 121
LEVEL: 100 MB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L
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1524
1548
1560
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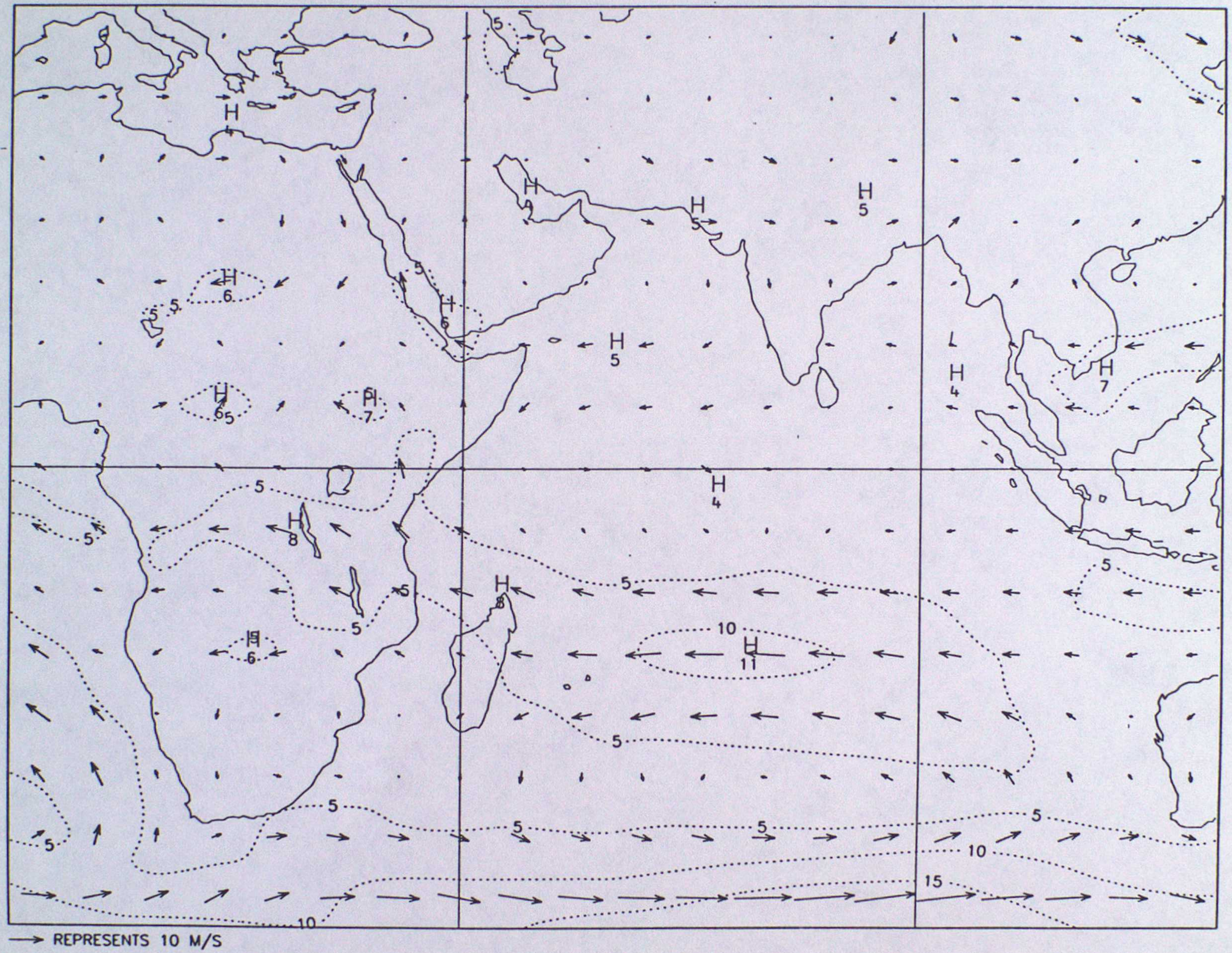
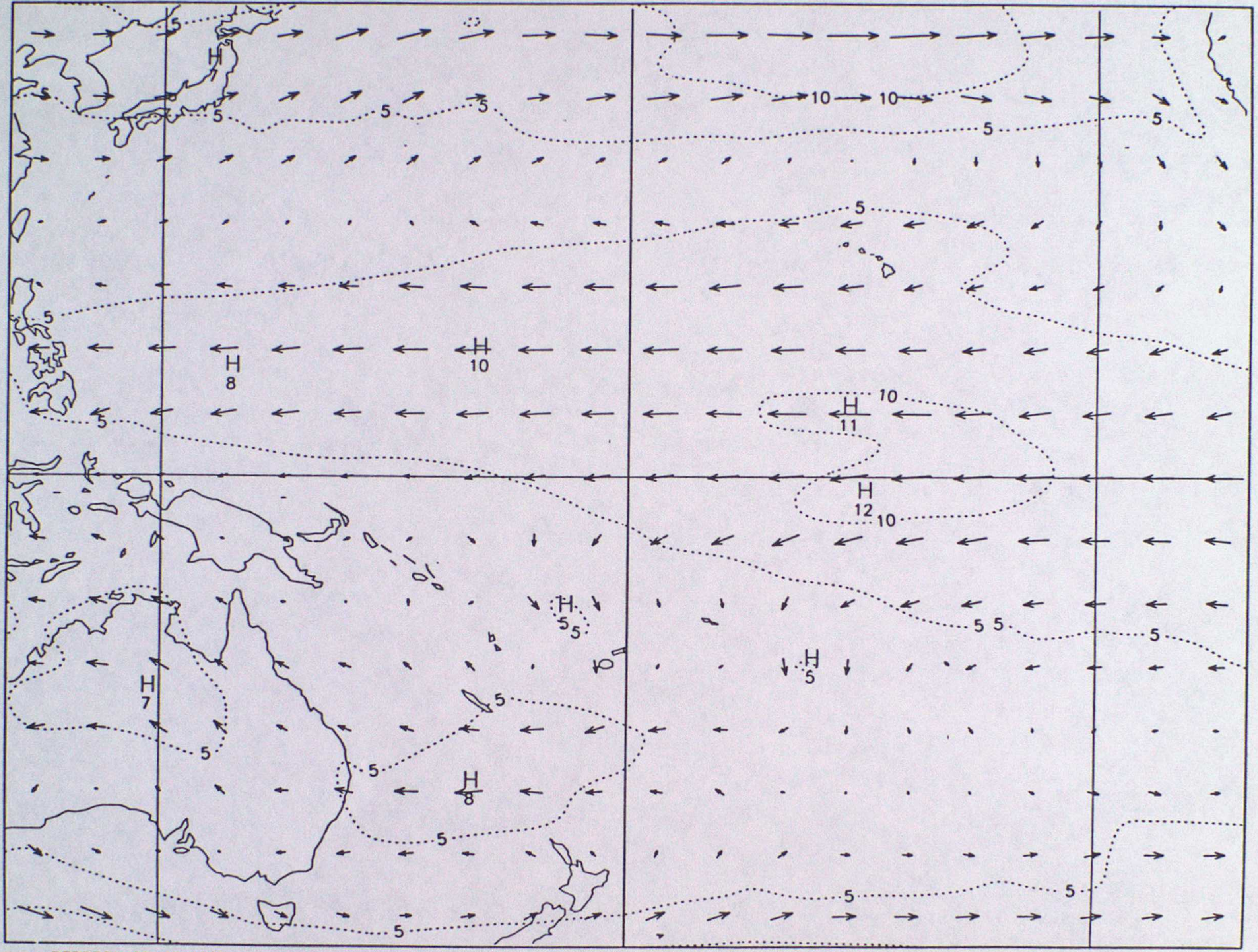
1584
1596
1608
1620
1632
1644
1656
H
1665
20

→ REPRESENTS 40 M/S CONTOUR INTERVAL: 120 M UNITS: 10 M

OPERATIONAL ARCHIVE MEANS.   APRIL   1988
WIND ARROWS AND ISOTACHS   BETWEEN LATS. 45 N - 45 S.
AVERAGE FROM   0Z ON 1/4/1988 DAY 92 TO 12Z ON 30/4/1988 DAY 121
850 MBS.   BETWEEN LONGS. 0 E - 120 E

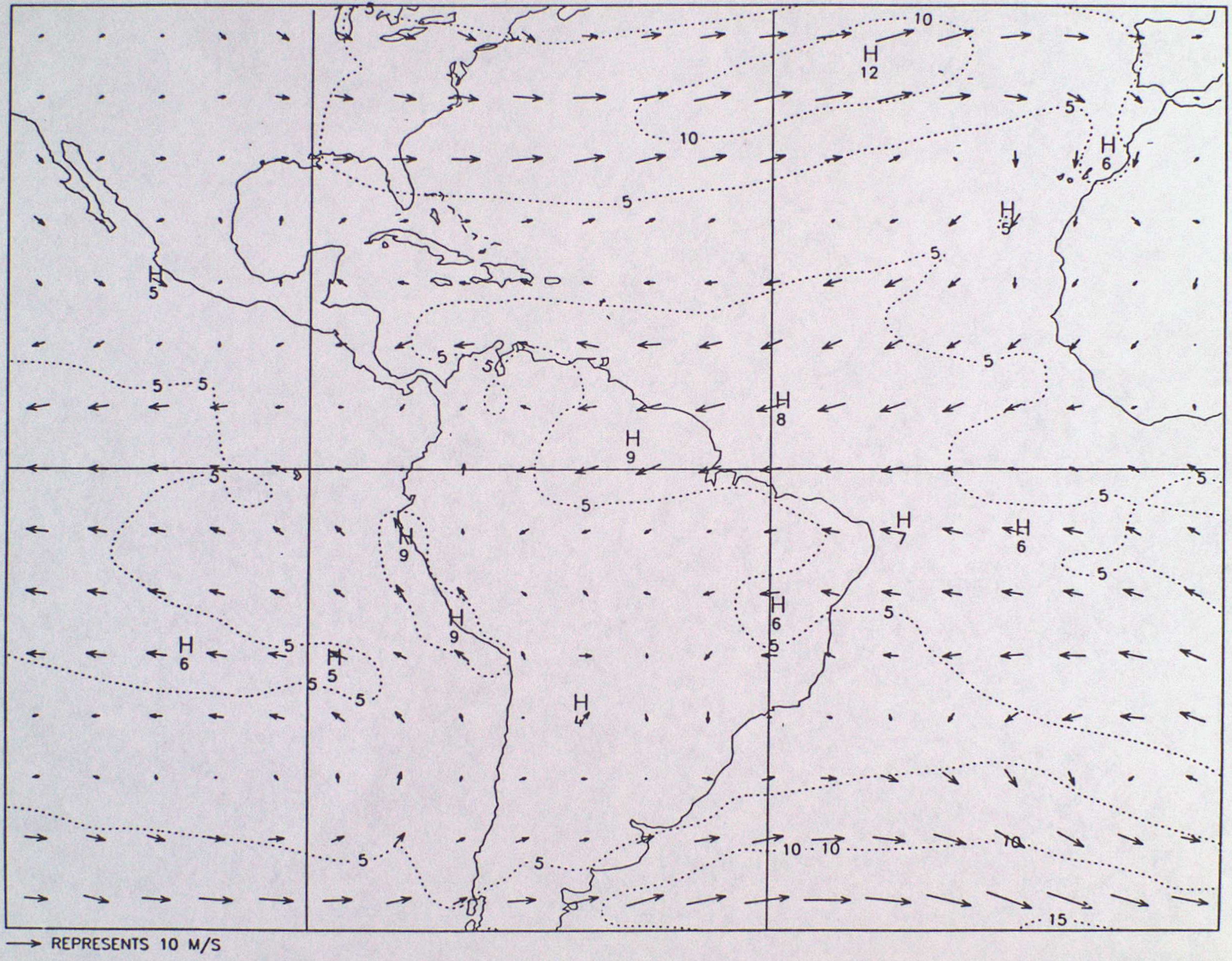

H
4
H
H
5
H
5
5
H
6
5
H
6
H
5
L
H
4
H
7
H
65
H
7
H
4
5
H
8
5
5
H
8
5
5
10
H
11
5
H
6
5
5
5
5
5
5
10
15
10
→ REPRESENTS 10 M/S

OPERATIONAL ARCHIVE MEANS. APRIL 1988
WIND ARROWS AND ISOTACHS BETWEEN LATS. 45 N - 45 S.
AVERAGE FROM 0Z ON 1/4/1988 DAY 92 TO 12Z ON 30/4/1988 DAY 121
850 MBS. BETWEEN LONGS. 120 E - 120 W


5
H
7
10
H
8
H
10
H
11
H
12
H
5
H
8

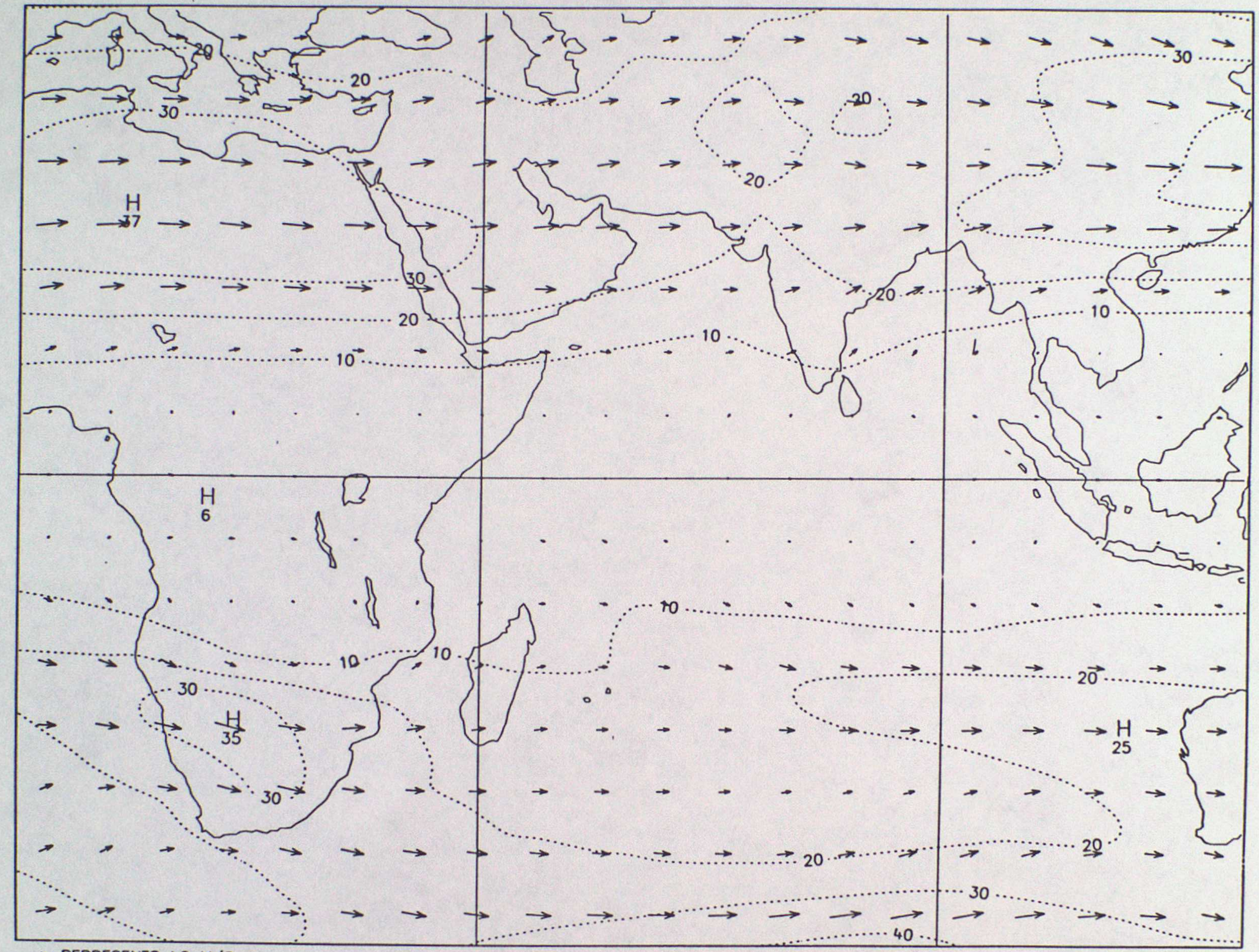
→ REPRESENTS 10 M/S

OPERATIONAL ARCHIVE MEANS.   APRIL   1988
WIND ARROWS AND ISOTACHS   BETWEEN LATS. 45 N - 45 S.
AVERAGE FROM   0Z ON 1/4/1988 DAY 92 TO 12Z ON 30/4/1988 DAY 121
850 MBS.   BETWEEN LONGS. 120 W - 0 W



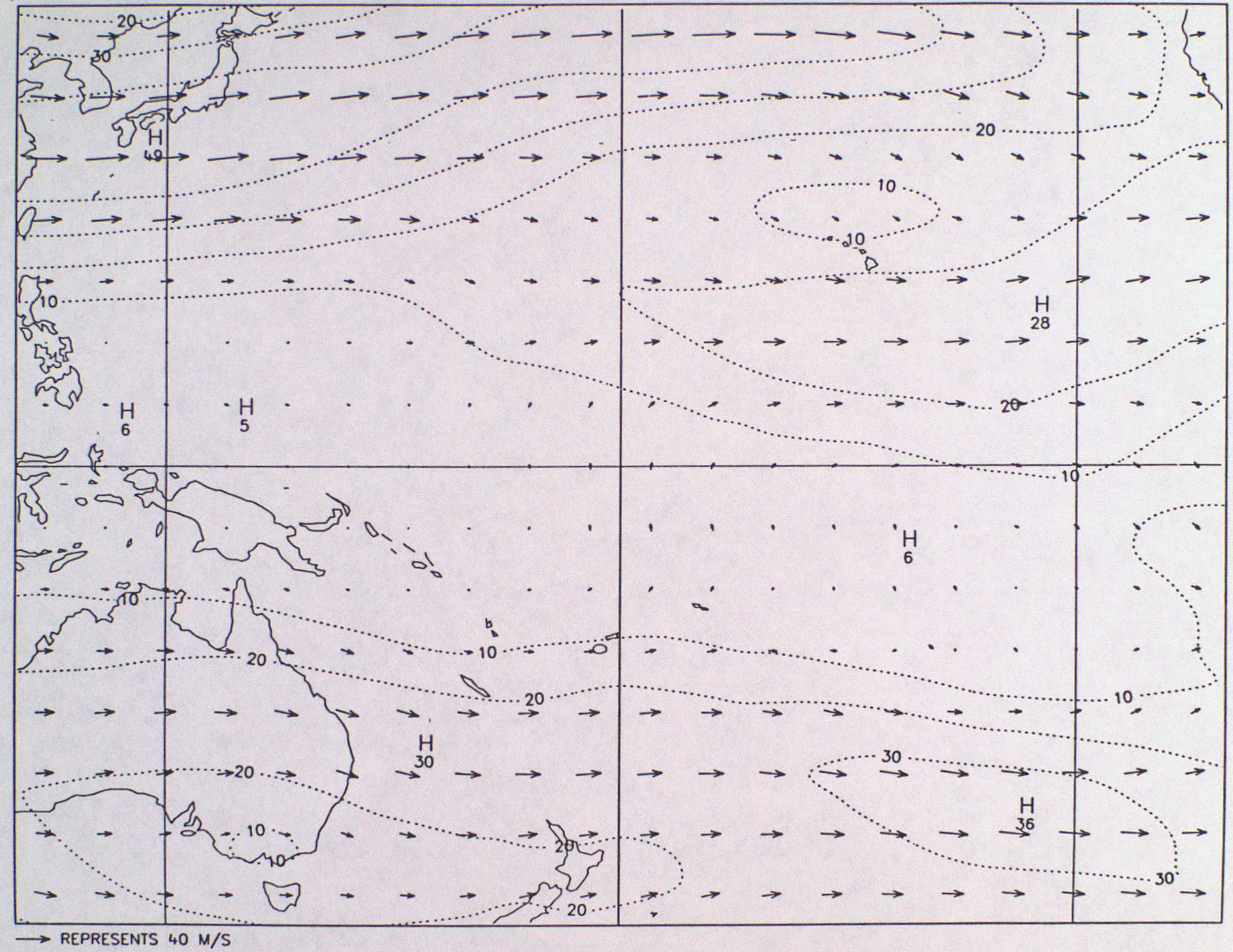
H 12
H 6
H 5
H 8
H 9
H 7
H 4
5
10
15
→ REPRESENTS 10 M/S

OPERATIONAL ARCHIVE MEANS. APRIL 1988
WIND ARROWS AND ISOTACHS BETWEEN LATS. 45 N - 45 S.
AVERAGE FROM 0Z ON 1/4/1988 DAY 92 TO 12Z ON 30/4/1988 DAY 121
250 MBS. BETWEEN LONGS. 0 E - 120 E

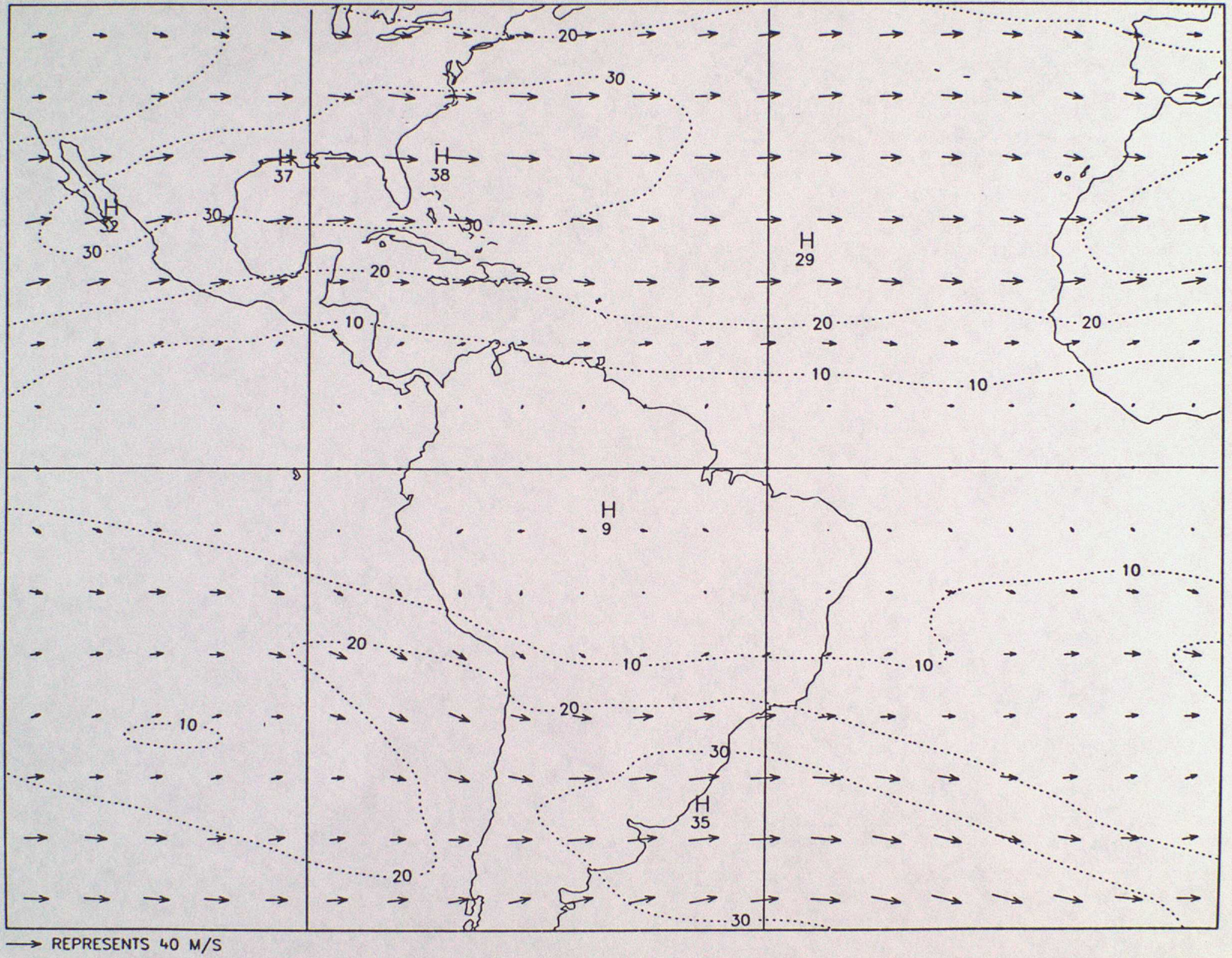

20
20
30
20
20
30
30
20
10
10
20
10
H
37
H
6
10
10
10
30
H
35
30
20
H
25
20
20
30
40

→ REPRESENTS 40 M/S

OPERATIONAL ARCHIVE MEANS. APRIL 1988
WIND ARROWS AND ISOTACHS BETWEEN LATS. 45 N - 45 S.
AVERAGE FROM 0Z ON 1/4/1988 DAY 92 TO 12Z ON 30/4/1988 DAY 121
250 MBS. BETWEEN LONGS. 120 E - 120 W

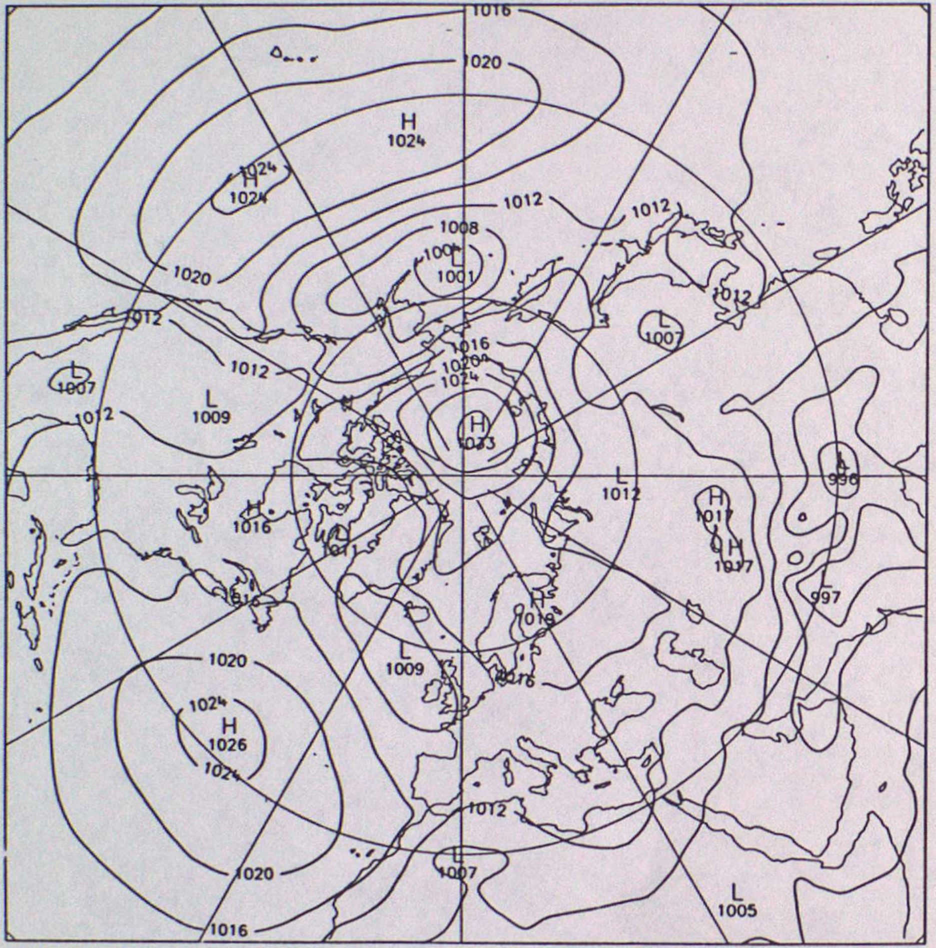

20
30
H 49
10
20
10
10
H 28
20
H 6
H 5
10
H 6
10
20
10
20
10
H 30
20
30
H 36
10
10
20
20
30
→ REPRESENTS 40 M/S

OPERATIONAL ARCHIVE MEANS. APRIL 1988
WIND ARROWS AND ISOTACHS BETWEEN LATS. 45 N - 45 S.
AVERAGE FROM 0Z ON 1/4/1988 DAY 92 TO 12Z ON 30/4/1988 DAY 121
250 MBS. BETWEEN LONGS. 120 W - 0 W


20
30
H
37
H
38
30
30
H
32
30
20
H
29
10
20
20
10
10
H
9
10
10
10
20
20
10
30
H
35
20
30
→ REPRESENTS 40 M/S

MAY
1988

OPERATIONAL ARCHIVE MEANS. MAY 1988
PMSL
AVERAGE FROM 0Z ON 1/5/1988 DAY 122 TO 12Z ON 31/5/1988 DAY 152
SEA LEVEL


1016
1020
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1024
1024
1024
1012
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1008
1004
L
1001
1020
1012
L
1007
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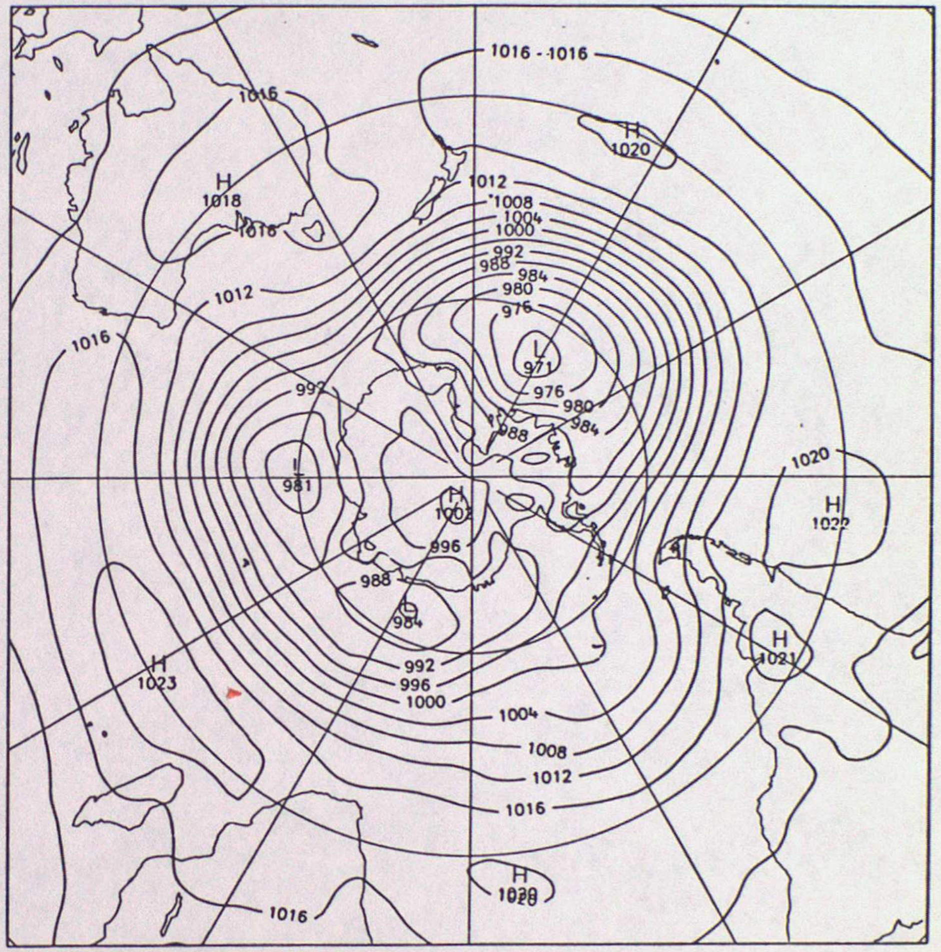
H
1023
L
1007
1012
L
1009
1012
L
1012
L
996
H
1017
H
1017
H
1016
L
1011
997
1016
L
1009
1016
1020
1024
H
1026
1024
1012
L
1007
1020
1016
L
1005

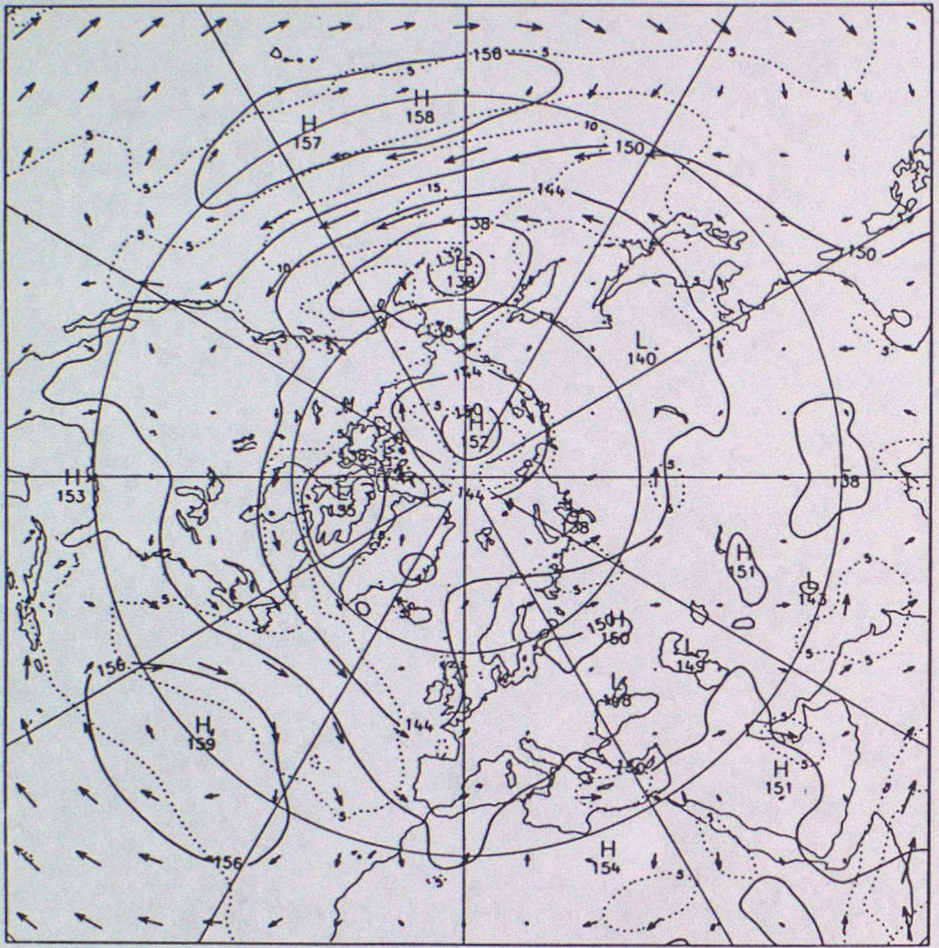
CONTOUR INTERVAL: 4 MB UNITS: MB

OPERATIONAL ARCHIVE MEANS. MAY 1988
PMSL
AVERAGE FROM 0Z ON 1/5/1988 DAY 122 TO 12Z ON 31/5/1988 DAY 152
SEA LEVEL


1016 - 1016
1016
H
1020
H
1018
1016
1012
1008
1004
1000
992
988
984
980
976
1012
1016
L
971
976
980
984
988
992
L
981
H
1002
996
988
L
984
1020
H
1022
H
1023
992
996
1000
1004
1008
1012
1016
H
1021
H
1020
1016

CONTOUR INTERVAL: 4 MB UNITS: MB

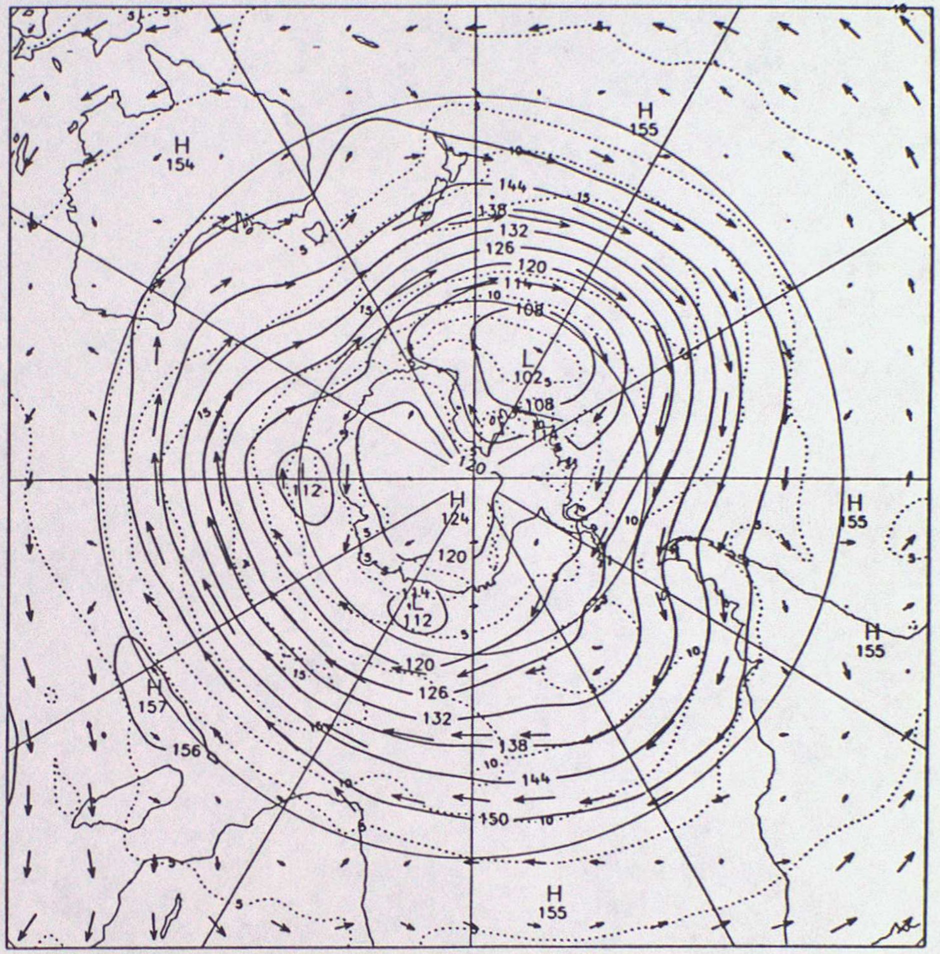
OPERATIONAL ARCHIVE MEANS. MAY 1988
HEIGHTS, WIND ARROWS AND ISOTACHS.
AVERAGE FROM 0Z ON 1/5/1988 DAY 122 TO 12Z ON 31/5/1988 DAY 152
LEVEL: 850 MB



H
157
H
158
156
150
144
138
132
L
140
H
152
H
153
144
H
151
H
159
156
H
151
H
154
L
149
L
148

→ REPRESENTS 10 M/S CONTOUR INTERVAL: 60 M UNITS: 10 M

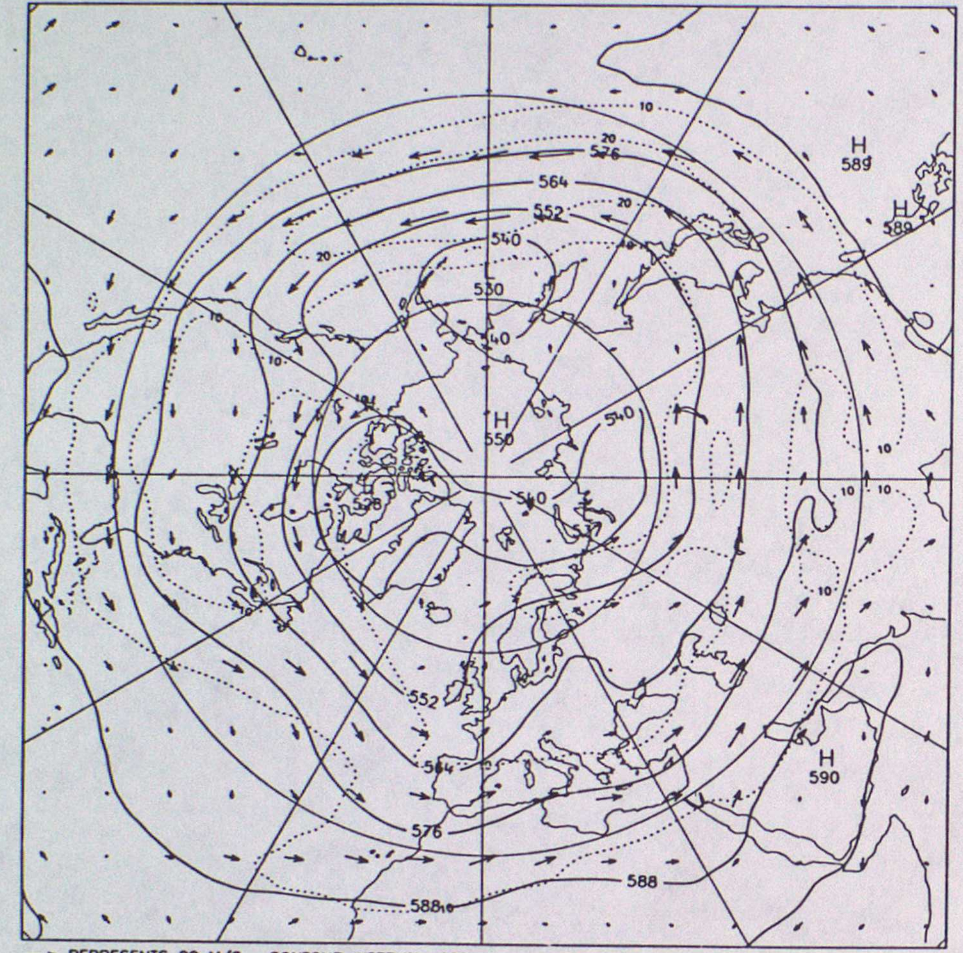
OPERATIONAL ARCHIVE MEANS. MAY 1988
HEIGHTS, WIND ARROWS AND ISOTACHS.
AVERAGE FROM 0Z ON 1/5/1988 DAY 122 TO 12Z ON 31/5/1988 DAY 152
LEVEL: 850 MB



H
154
H
155
144
138
132
126
120
114
108
L
102
112
H
124
120
L
112
H
155
H
155
H
157
156
150
H
155

→ REPRESENTS 10 M/S CONTOUR INTERVAL: 60 M UNITS: 10 M

OPERATIONAL ARCHIVE MEANS. MAY 1988
HEIGHTS, WIND ARROWS AND ISOTACHS.
AVERAGE FROM 0Z ON 1/5/1988 DAY 122 TO 12Z ON 31/5/1988 DAY 152
LEVEL: 500 MB


H
589
H
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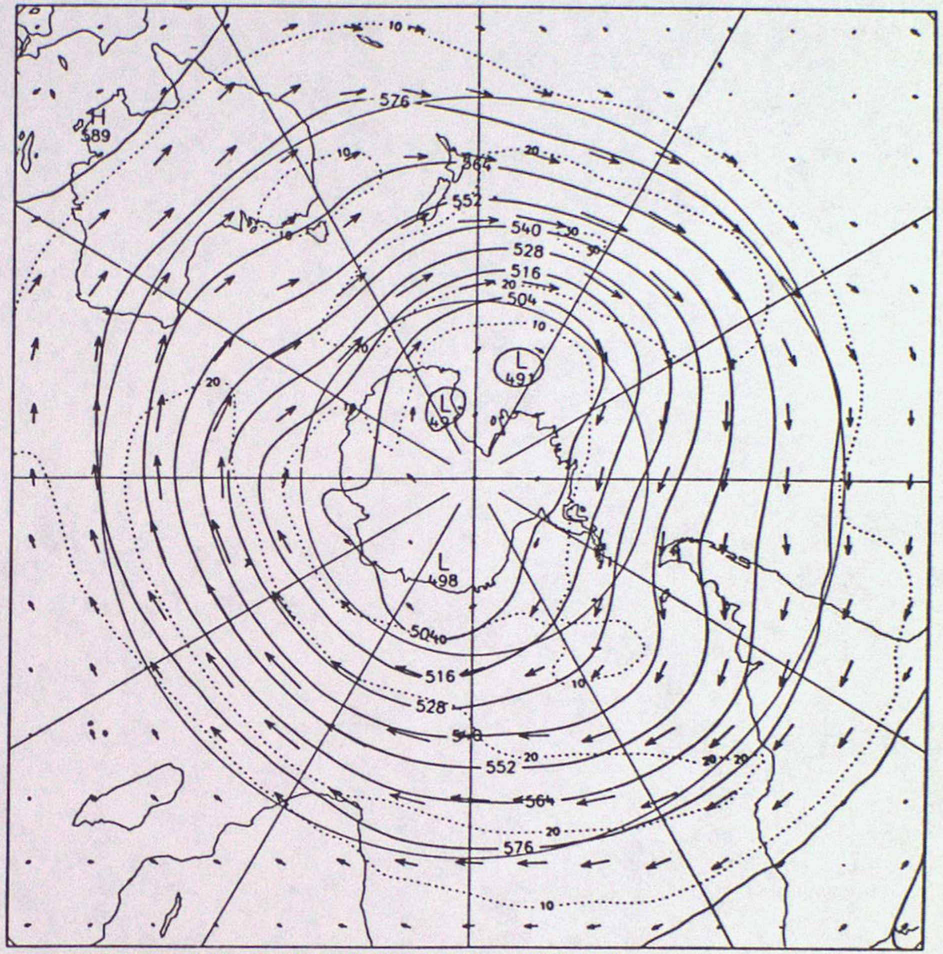
576
564
552
540
L
530
540
H
550
540
528
552
564
576
588
588
H
590
10
20

→ REPRESENTS 20 M/S CONTOUR INTERVAL: 120 M UNITS: 10 M

OPERATIONAL ARCHIVE MEANS. MAY 1988
HEIGHTS, WIND ARROWS AND ISOTACHS.
AVERAGE FROM 0Z ON 1/5/1988 DAY 122 TO 12Z ON 31/5/1988 DAY 152
LEVEL: 500 MB


H
589
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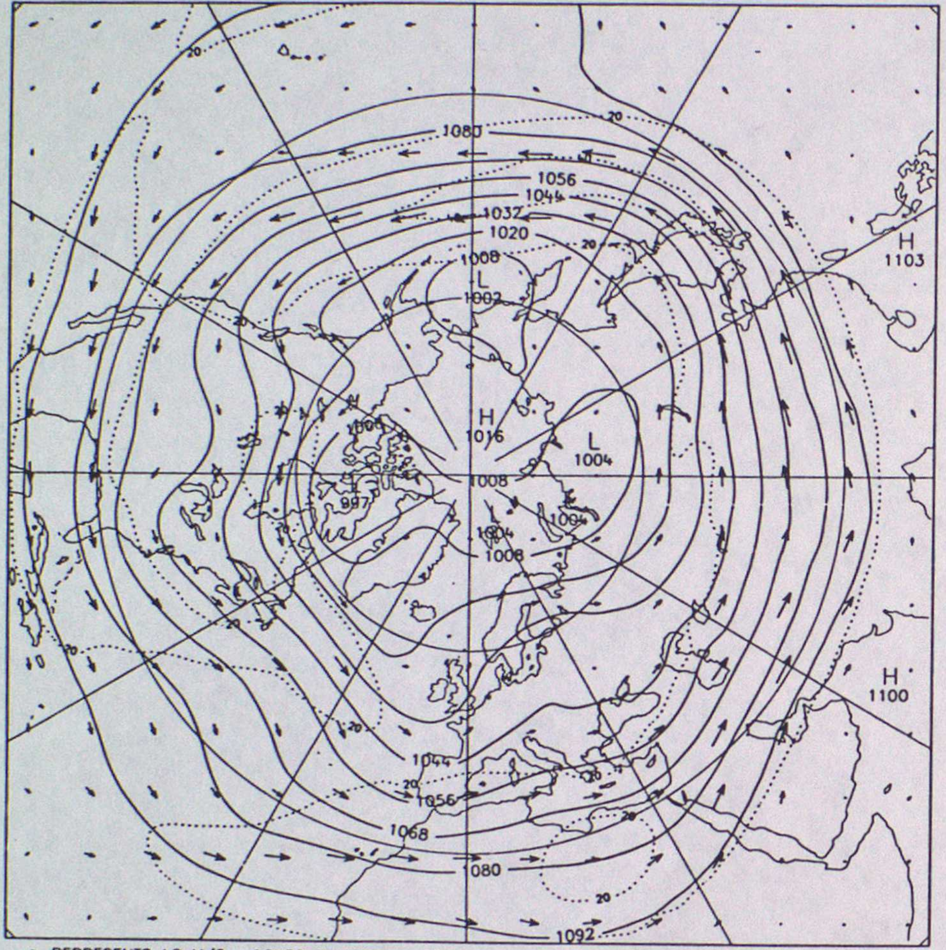
552
540
528
516
504
L
491
L
49
L
498
504
516
528
540
552
564
576
10
20
30

→ REPRESENTS 20 M/S CONTOUR INTERVAL: 120 M UNITS: 10 M

OPERATIONAL ARCHIVE MEANS. MAY 1988
HEIGHTS, WIND ARROWS AND ISOTACHS.
AVERAGE FROM 0Z ON 1/5/1988 DAY 122 TO 12Z ON 31/5/1988 DAY 152
LEVEL: 250 MB


1080
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1044
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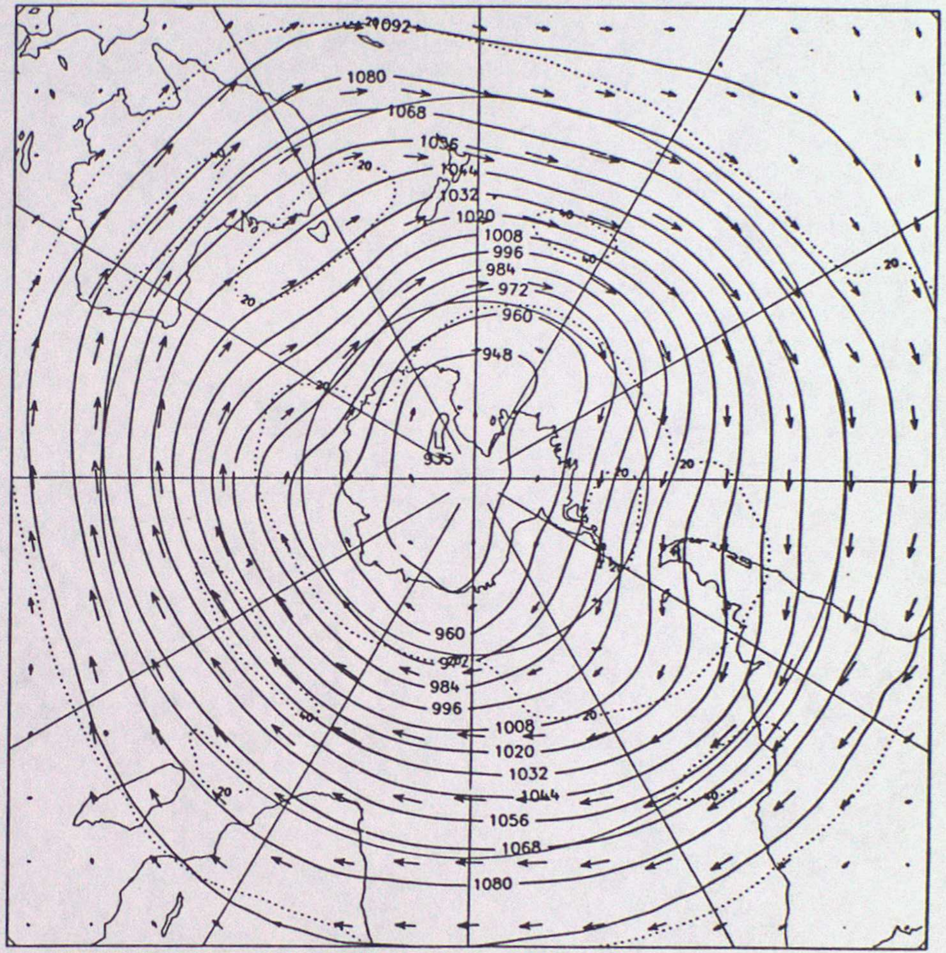
1008
L
1002
H
1016
L
1004
1008
1004
1008
997
H
1103
H
1100
1044
1056
1068
1080
1092
20

→ REPRESENTS 40 M/S CONTOUR INTERVAL: 120 M UNITS: 10 M

OPERATIONAL ARCHIVE MEANS. MAY 1988
HEIGHTS, WIND ARROWS AND ISOTACHS.
AVERAGE FROM 0Z ON 1/5/1988 DAY 122 TO 12Z ON 31/5/1988 DAY 152
LEVEL: 250 MB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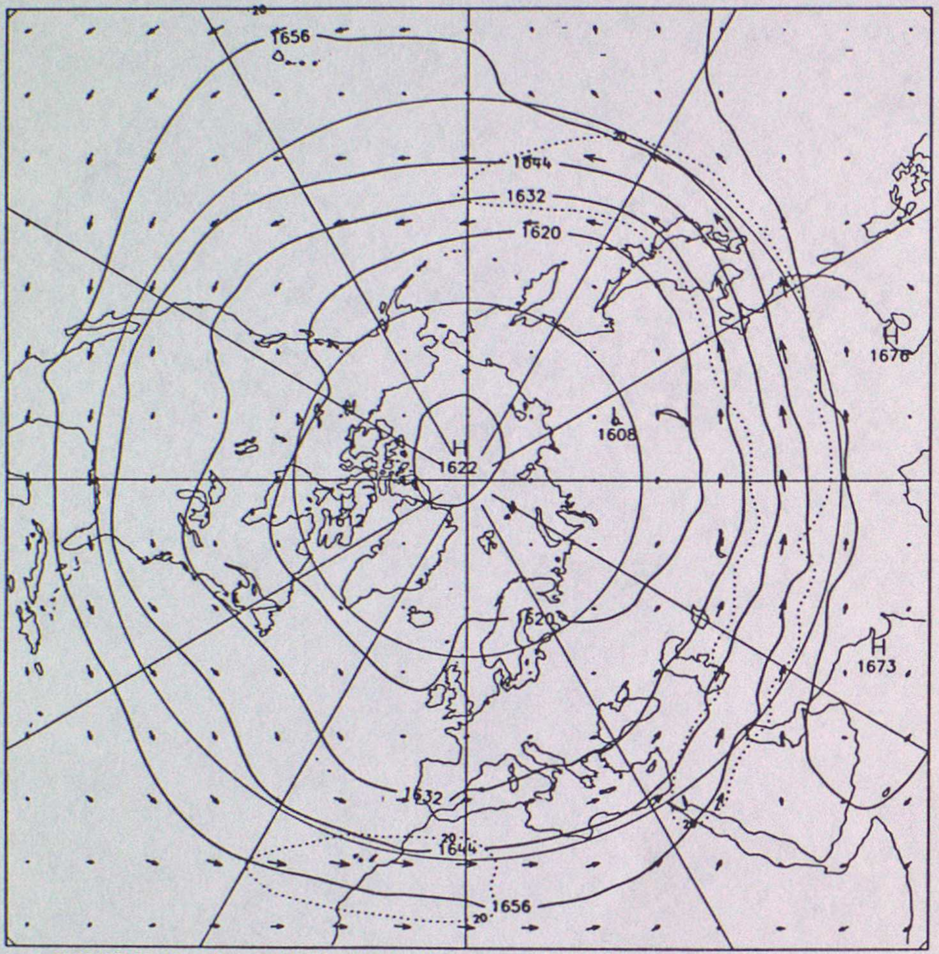
948
935
960
972
984
996
1008
1020
1032
1044
1056
1068
1080
20
40

→ REPRESENTS 40 M/S CONTOUR INTERVAL: 120 M UNITS: 10 M

OPERATIONAL ARCHIVE MEANS. MAY 1988
HEIGHTS, WIND ARROWS AND ISOTACHS.
AVERAGE FROM 0Z ON 1/5/1988 DAY 122 TO 12Z ON 31/5/1988 DAY 152
LEVEL: 100 MB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H
1622
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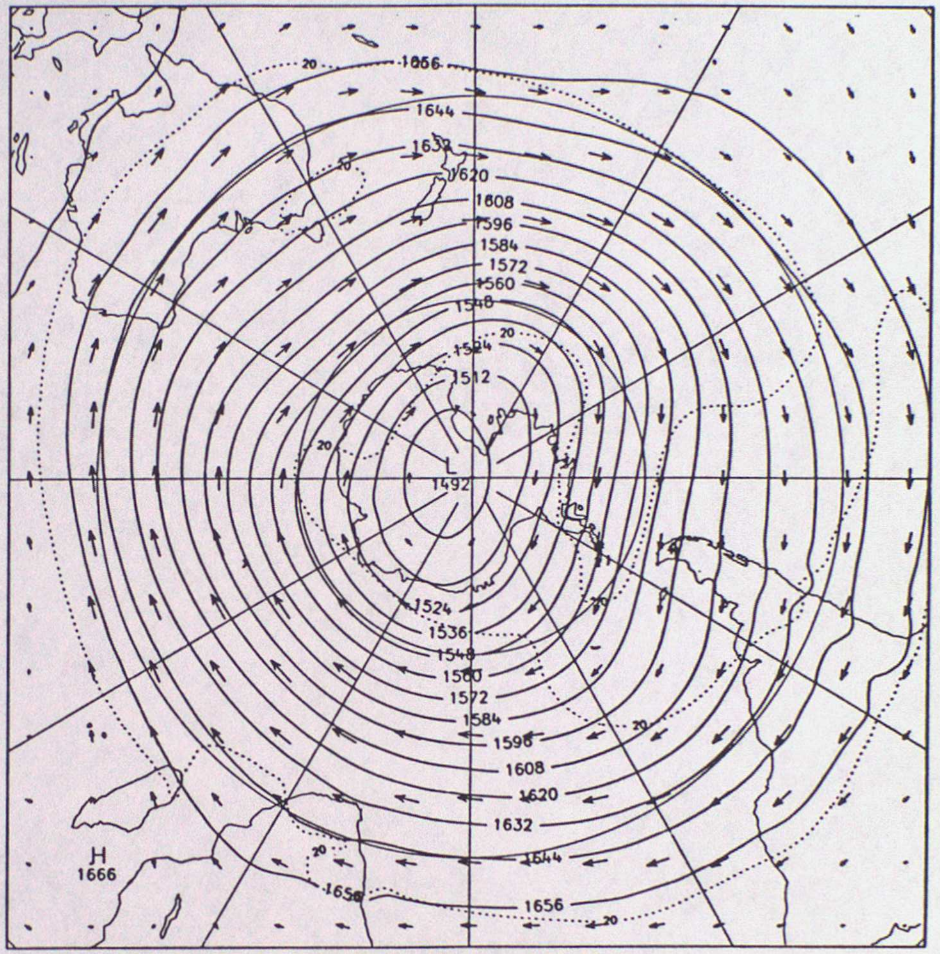
L
1608
1620
H
1676
H
1673
1632
1644
1656
20

→ REPRESENTS 40 M/S CONTOUR INTERVAL: 120 M UNITS: 10 M

OPERATIONAL ARCHIVE MEANS. MAY 1988
HEIGHTS, WIND ARROWS AND ISOTACHS.
AVERAGE FROM 0Z ON 1/5/1988 DAY 122 TO 12Z ON 31/5/1988 DAY 152
LEVEL: 100 MB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1548
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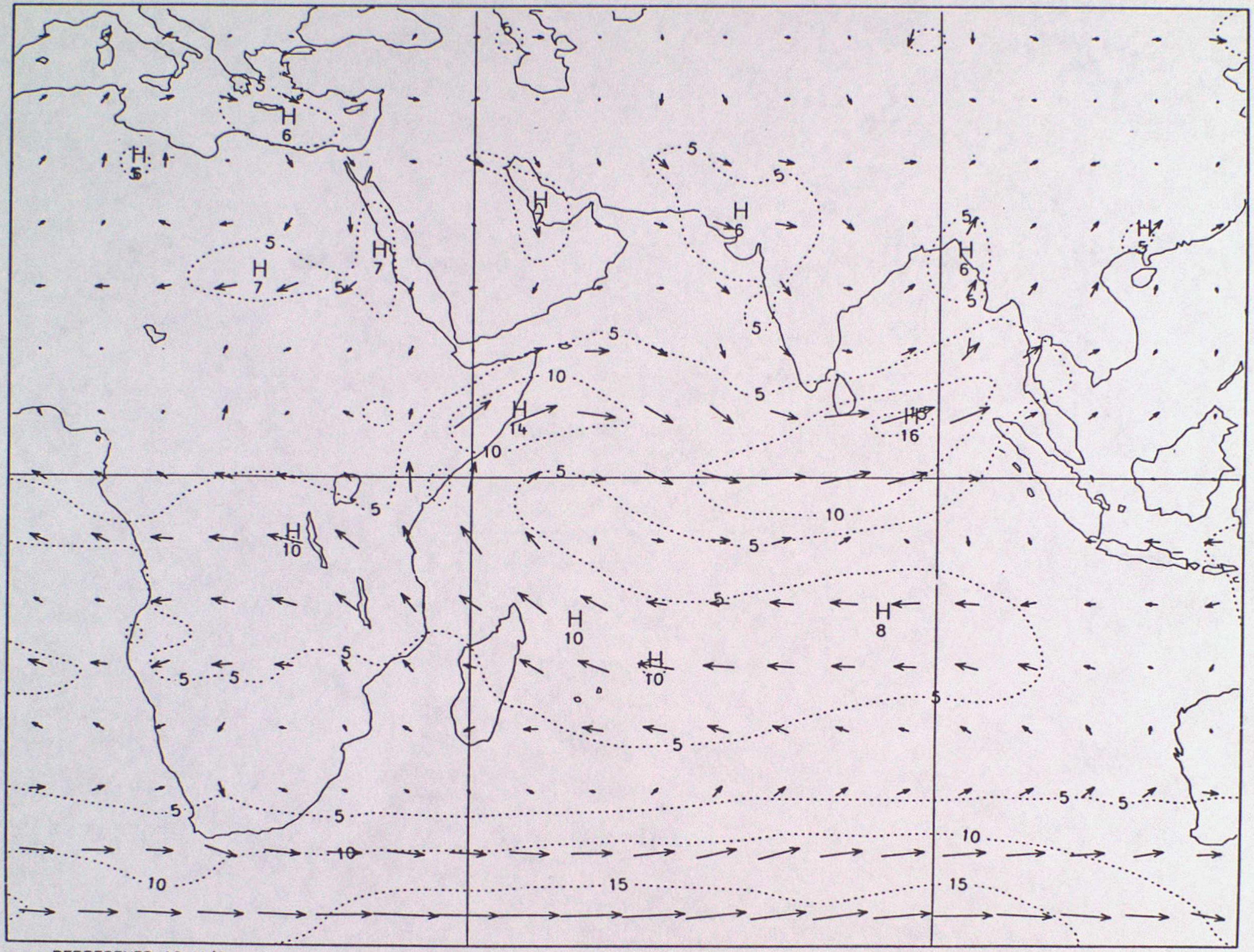
1572
1584
1596
1608
1620
1632
1644
1656
H
1666
20

→ REPRESENTS 40 M/S CONTOUR INTERVAL: 120 M UNITS: 10 M

OPERATIONAL ARCHIVE MEANS.   MAY   1988
WIND ARROWS AND ISOTACHS BETWEEN LATS. 45 N - 45 S.
AVERAGE FROM 0Z ON 1/5/1988 DAY 122 TO 12Z ON 31/5/1988 DAY 152
850 MBS.   BETWEEN LONGS. 0 E - 120 E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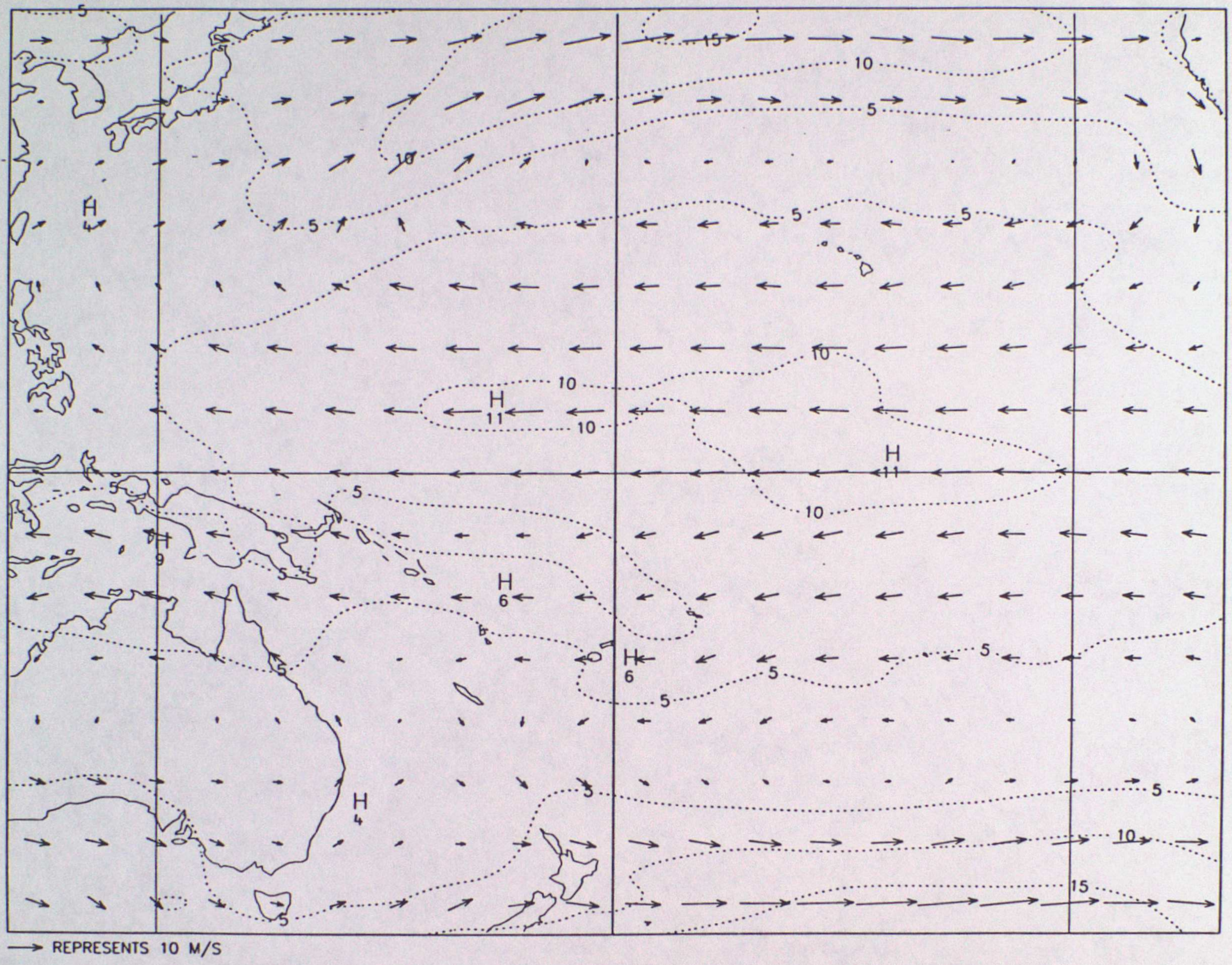
H 7
H 7
H 6
H 6
H 5
H 14
H 16
H 10
H 10
H 8
H 10
5
10
15

→ REPRESENTS 10 M/S

OPERATIONAL ARCHIVE MEANS.   MAY   1988
WIND ARROWS AND ISOTACHS   BETWEEN LATS. 45 N - 45 S.
AVERAGE FROM 0Z ON 1/5/1988 DAY 122 TO 12Z ON 31/5/1988 DAY 152
850 MBS.   BETWEEN LONGS. 120 E - 120 W


5
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10
H
11
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H
11
10
5
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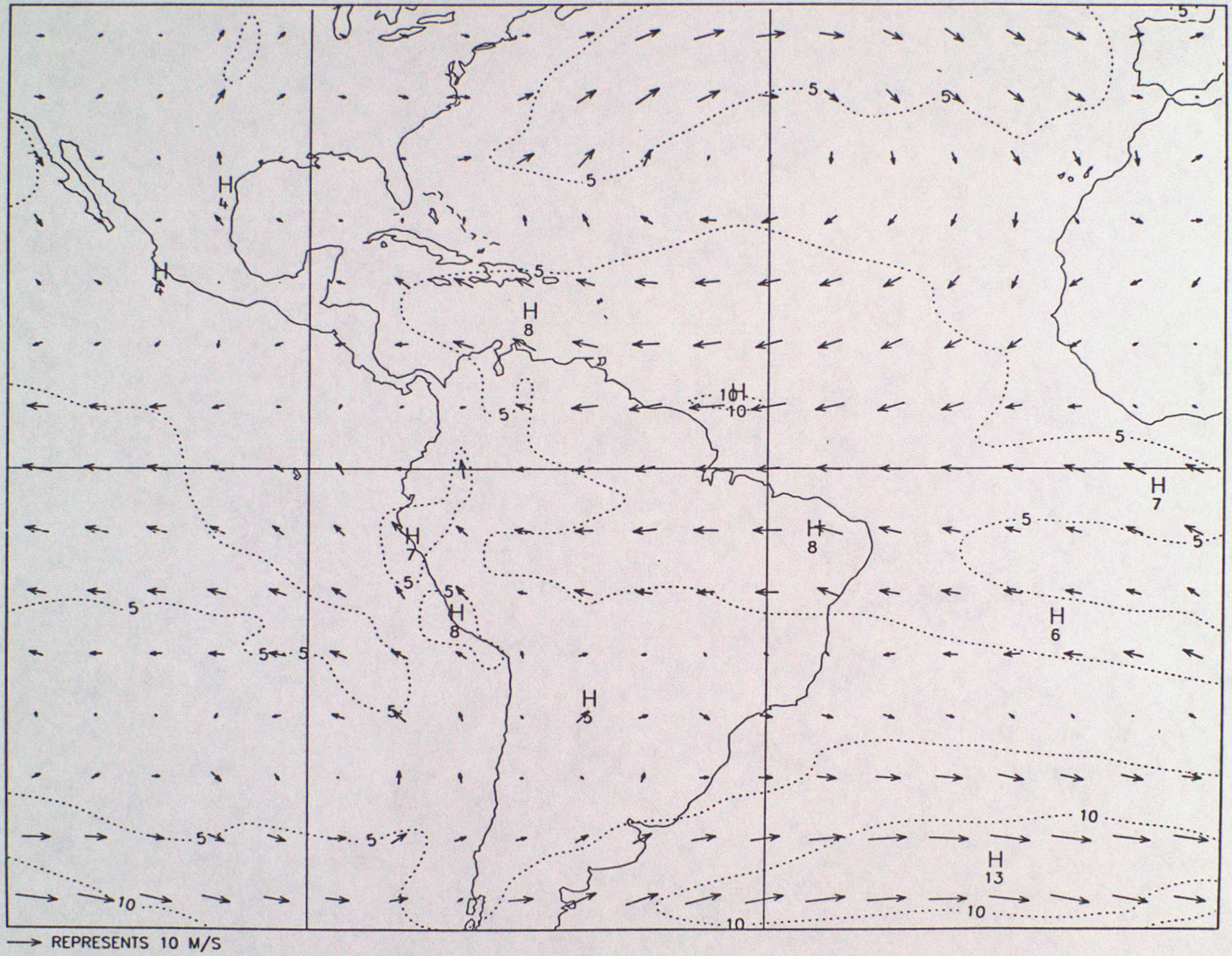
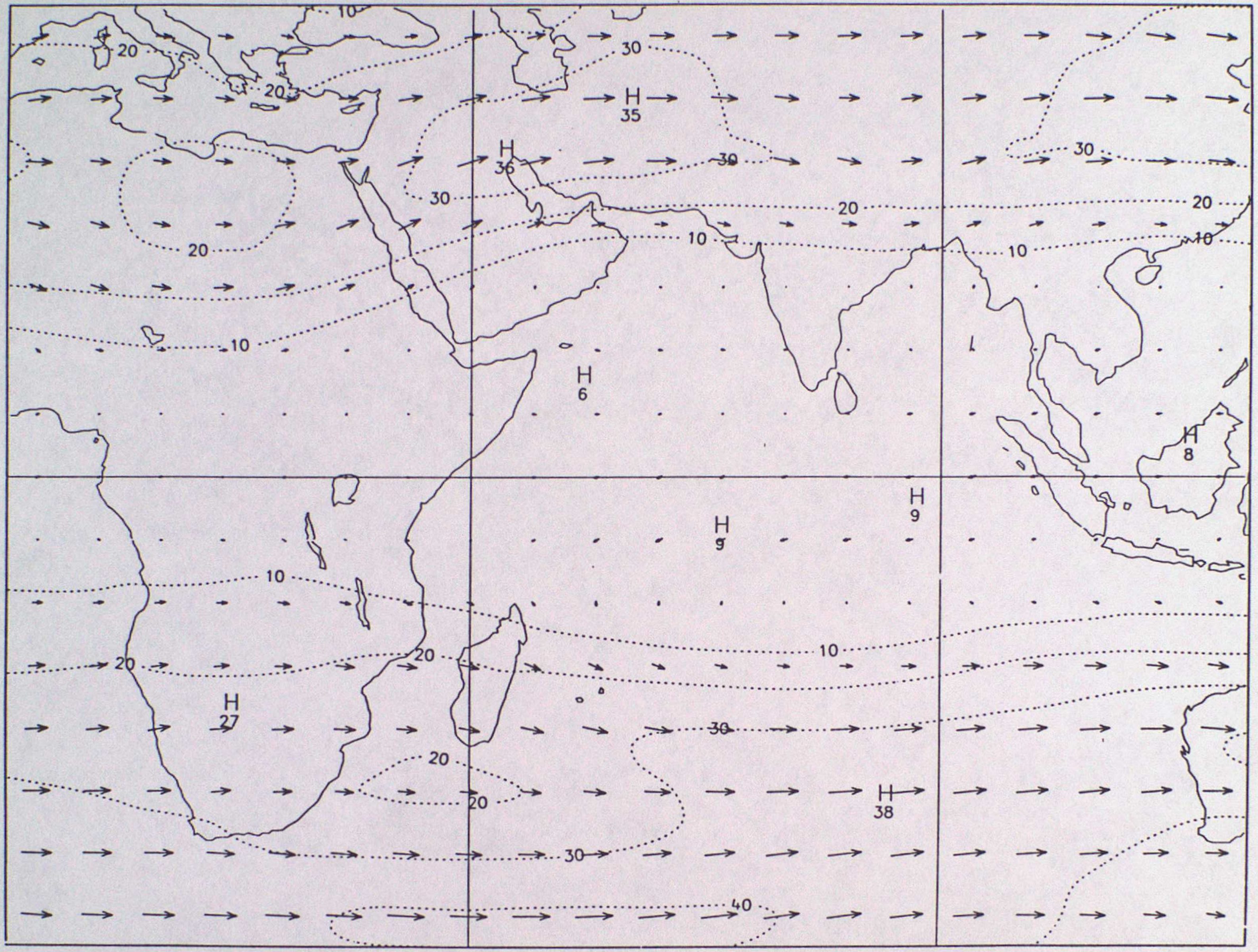
H
9
H
6
5
H
6
5
5
5
H
4
5
10
15
5
→ REPRESENTS 10 M/S

OPERATIONAL ARCHIVE MEANS. MAY 1988
WIND ARROWS AND ISOTACHS BETWEEN LATS. 45 N - 45 S.
AVERAGE FROM 0Z ON 1/5/1988 DAY 122 TO 12Z ON 31/5/1988 DAY 152
850 MBS. BETWEEN LONGS. 120 W - 0 W


H 4
H 4
H 8
H 10
10
H 7
H 8
H 7
H 8
H 6
H 5
H 13
5
10
→ REPRESENTS 10 M/S

OPERATIONAL ARCHIVE MEANS.   MAY   1988
WIND ARROWS AND ISOTACHS BETWEEN LATS. 45 N - 45 S.
AVERAGE FROM 0Z ON 1/5/1988 DAY 122 TO 12Z ON 31/5/1988 DAY 152
250 MBS.   BETWEEN LONGS. 0 E - 120 E


10
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10
10
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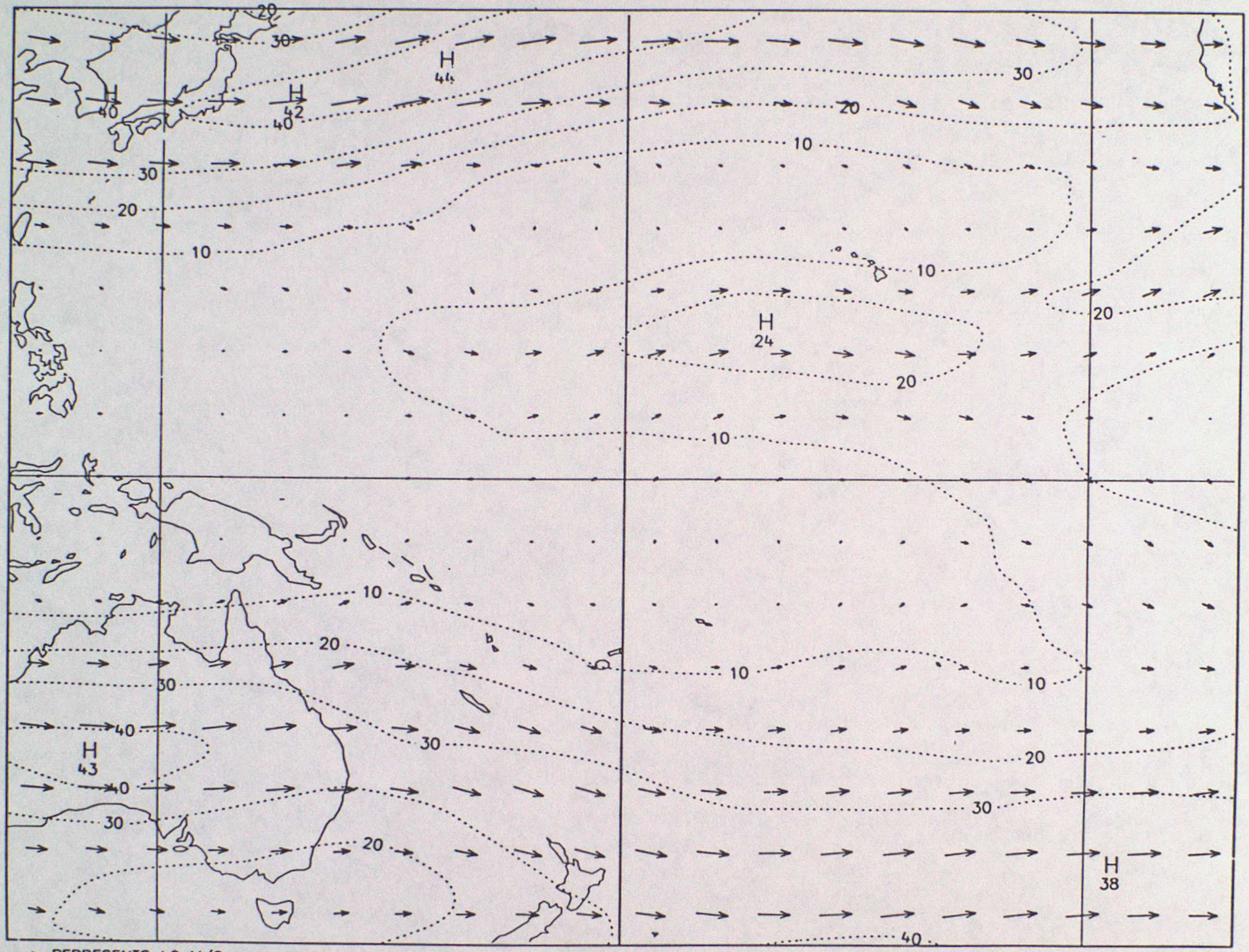
H
8
H
9
H
9
10
10
20
20
H
27
30
20
20
H
38
30
40

→ REPRESENTS 40 M/S

OPERATIONAL ARCHIVE MEANS. MAY 1988
WIND ARROWS AND ISOTACHS BETWEEN LATS. 45 N - 45 S.
AVERAGE FROM 0Z ON 1/5/1988 DAY 122 TO 12Z ON 31/5/1988 DAY 152
250 MBS. BETWEEN LONGS. 120 E - 120 W


H 44
H 42
H 40
H 24
H 43
H 38
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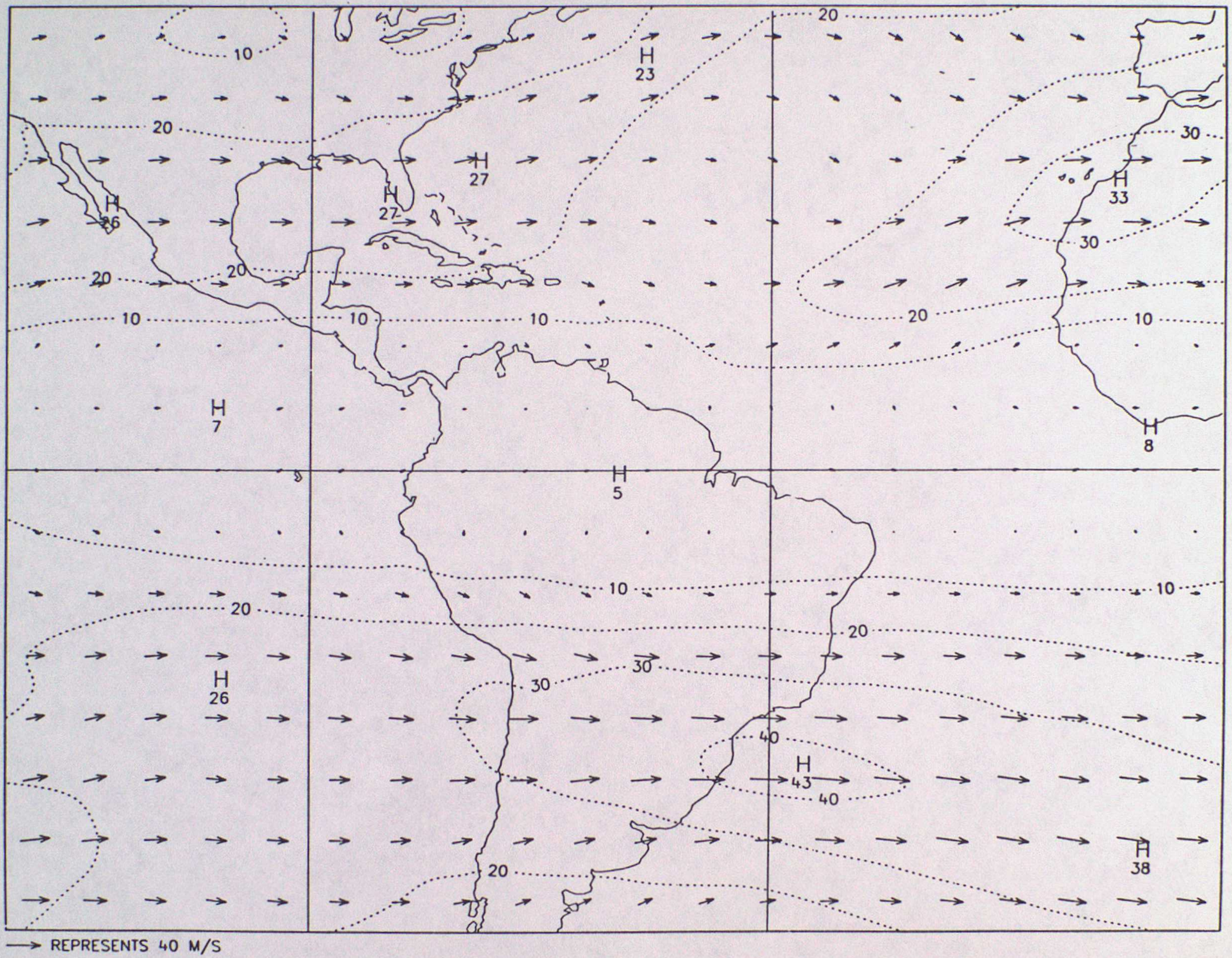
40

→ REPRESENTS 40 M/S

OPERATIONAL ARCHIVE MEANS. MAY 1988
WIND ARROWS AND ISOTACHS BETWEEN LATS. 45 N - 45 S.
AVERAGE FROM 0Z ON 1/5/1988 DAY 122 TO 12Z ON 31/5/1988 DAY 152
250 MBS. BETWEEN LONGS. 120 W - 0 W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8
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5
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20
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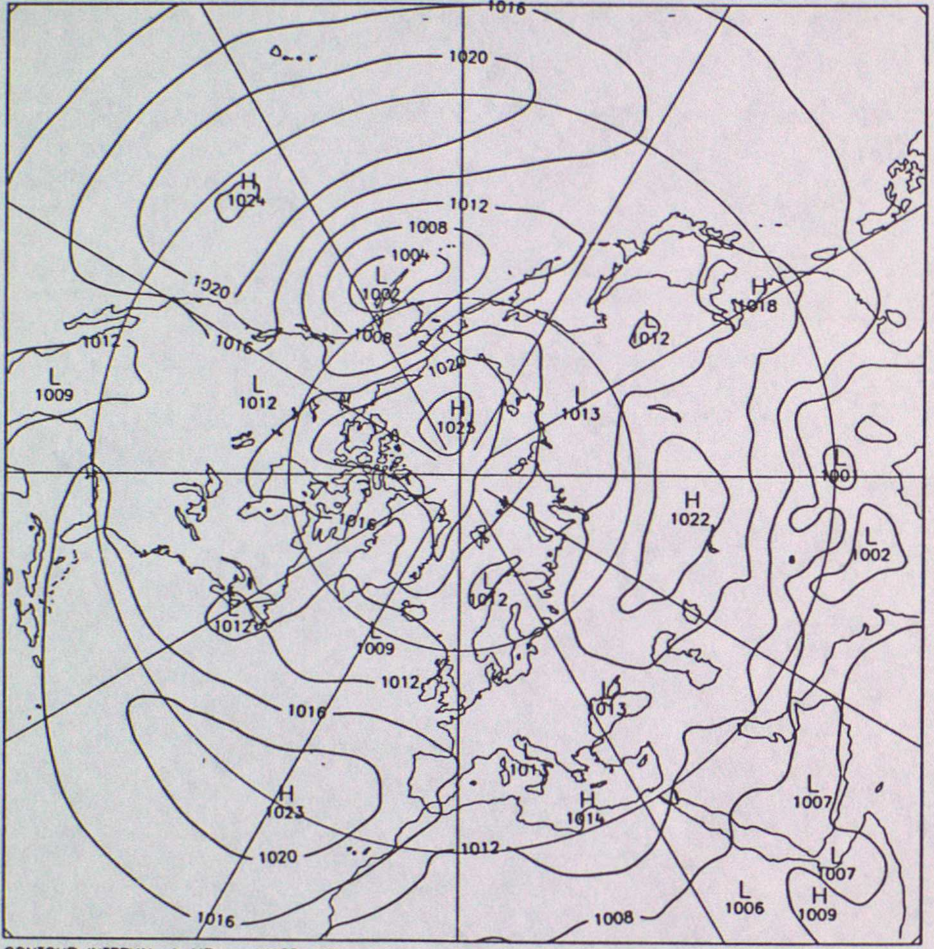
H
26
30
30
40
H
43
40
H
38
20
→ REPRESENTS 40 M/S

MARCH/APRIL/MAY
1988

OPERATIONAL ARCHIVE MEANS. MAR/APR/MAY1988
PMSL
AVERAGE FROM 0Z ON 1/3/1988 DAY 61 TO 12Z ON 31/5/1988 DAY 152
SEA LEVEL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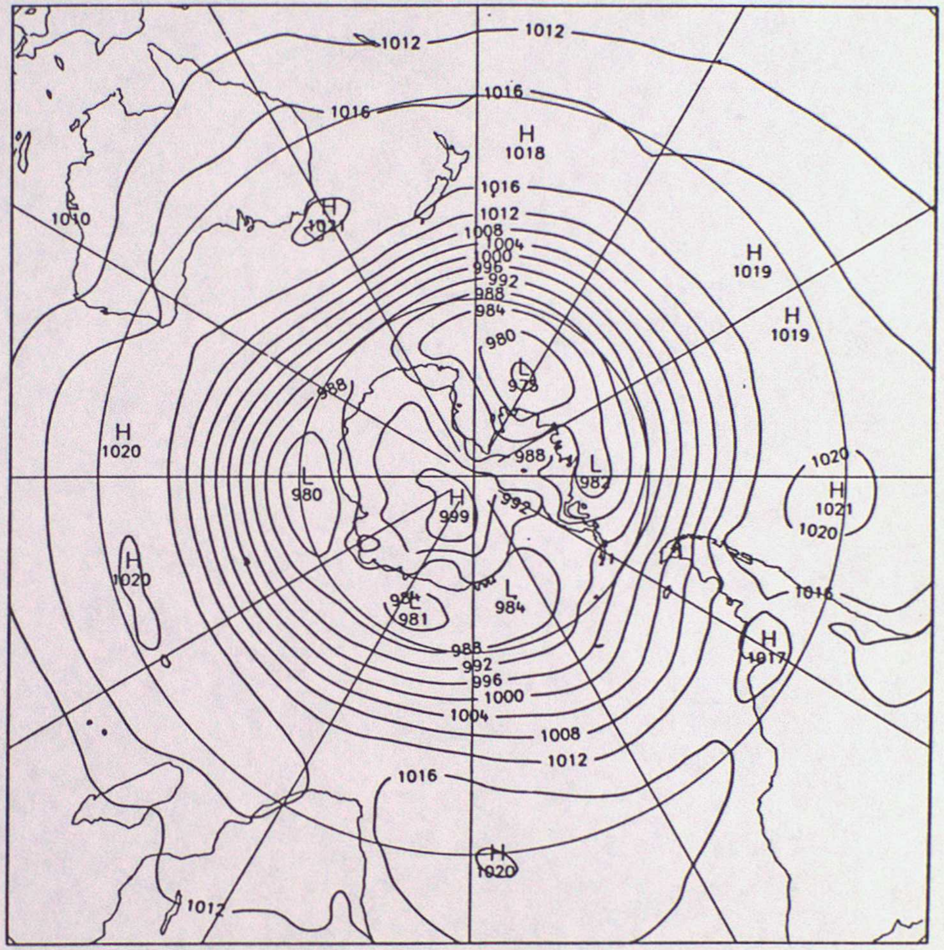
1009
1012
1016
L 1013
1013
H 1014
H 1023
1020
1012
L 1007
L 1007
L 1006
H 1009
1016
1008

CONTOUR INTERVAL: 4 MB UNITS: MB

OPERATIONAL ARCHIVE MEANS. MAR/APR/MAY1988
PMSL
AVERAGE FROM 0Z ON 1/3/1988 DAY 61 TO 12Z ON 31/5/1988 DAY 152
SEA LEVEL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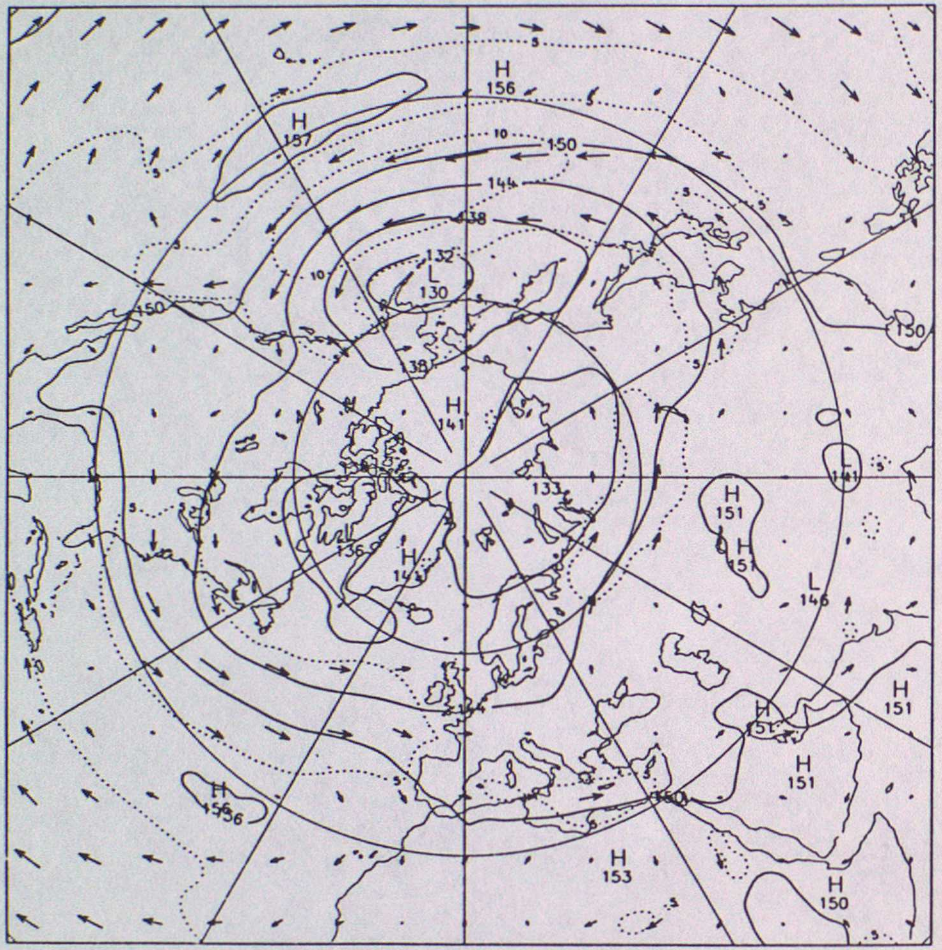
H 1021
1010
H 1019
H 1019
988
988
L 982
H 1020
L 980
H 999
992
H 1020
1020
H 1021
1020
984
L 981
L 984
1016
H 1017
988
992
996
1000
1004
1008
1012
1016
H 1020
1012

CONTOUR INTERVAL: 4 MB UNITS: MB

OPERATIONAL ARCHIVE MEANS. MAR/APR/MAY1988
HEIGHTS, WIND ARROWS AND ISOTACHS.
AVERAGE FROM 0Z ON 1/3/1988 DAY 61 TO 12Z ON 31/5/1988 DAY 152
LEVEL: 850 MB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L 130
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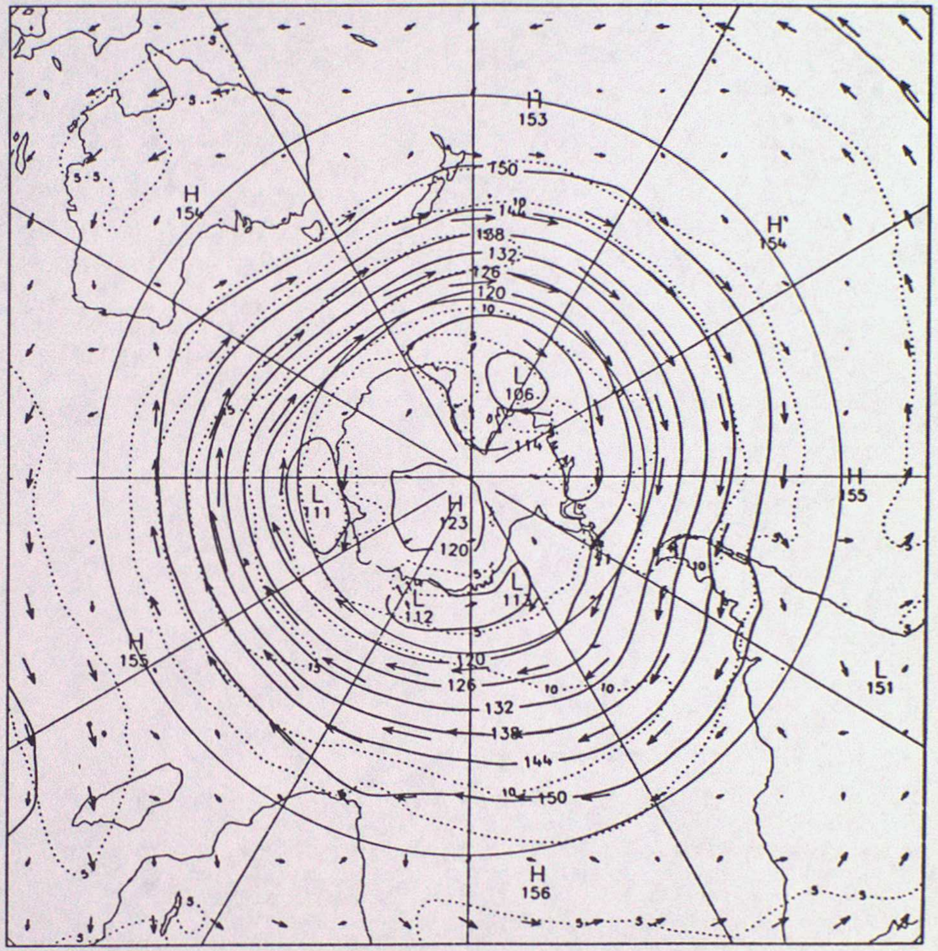
H 141
H 141
133
136
L 141
H 151
H 151
L 146
H 151
H 151
H 156
H 153
H 150

→ REPRESENTS 10 M/S CONTOUR INTERVAL: 60 M UNITS: 10 M

OPERATIONAL ARCHIVE MEANS. MAR/APR/MAY1988
HEIGHTS, WIND ARROWS AND ISOTACHS.
AVERAGE FROM 0Z ON 1/3/1988 DAY 61 TO 12Z ON 31/5/1988 DAY 152
LEVEL: 850 MB


H 153
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H 154
L 111
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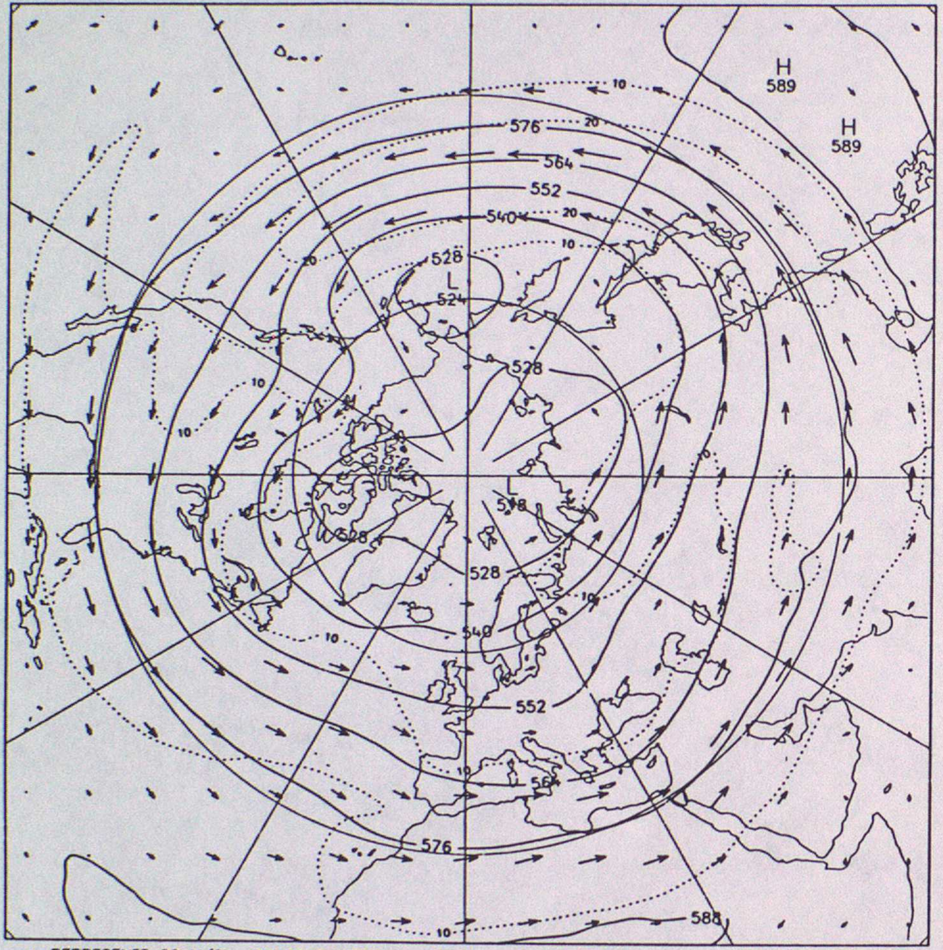
120
L 112
L 114
H 155
H 155
120
126
132
138
144
150
L 151
H 156

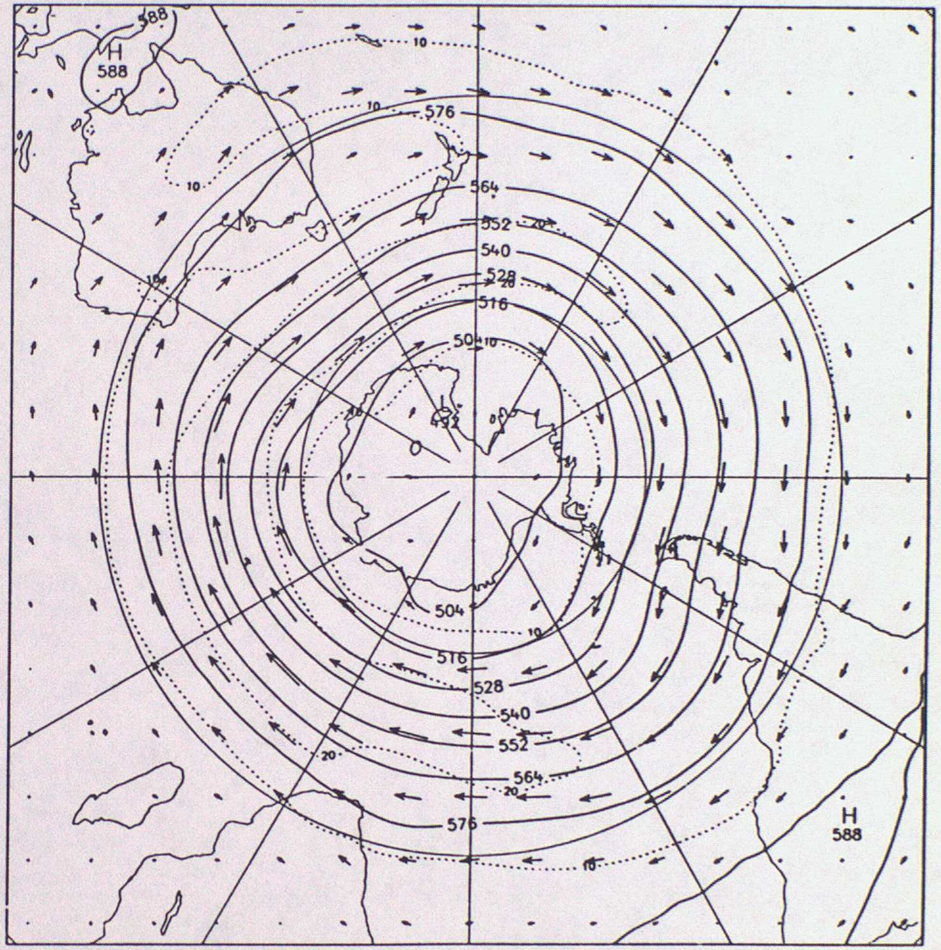
→ REPRESENTS 10 M/S CONTOUR INTERVAL: 60 M UNITS: 10 M

OPERATIONAL ARCHIVE MEANS. MAR/APR/MAY1988
HEIGHTS, WIND ARROWS AND ISOTACHS.
AVERAGE FROM 0Z ON 1/3/1988 DAY 61 TO 12Z ON 31/5/1988 DAY 152
LEVEL: 500 MB


H
589
H
589
576
564
552
540
528
L
524
528
L
518
528
528
540
552
564
576
588
10
20
10
10
10
10
10
10
10
20
10

→ REPRESENTS 20 M/S CONTOUR INTERVAL: 120 M UNITS: 10 M

OPERATIONAL ARCHIVE MEANS. MAR/APR/MAY1988
HEIGHTS, WIND ARROWS AND ISOTACHS.
AVERAGE FROM 0Z ON 1/3/1988 DAY 61 TO 12Z ON 31/5/1988 DAY 152
LEVEL: 500 MB


H
588
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540
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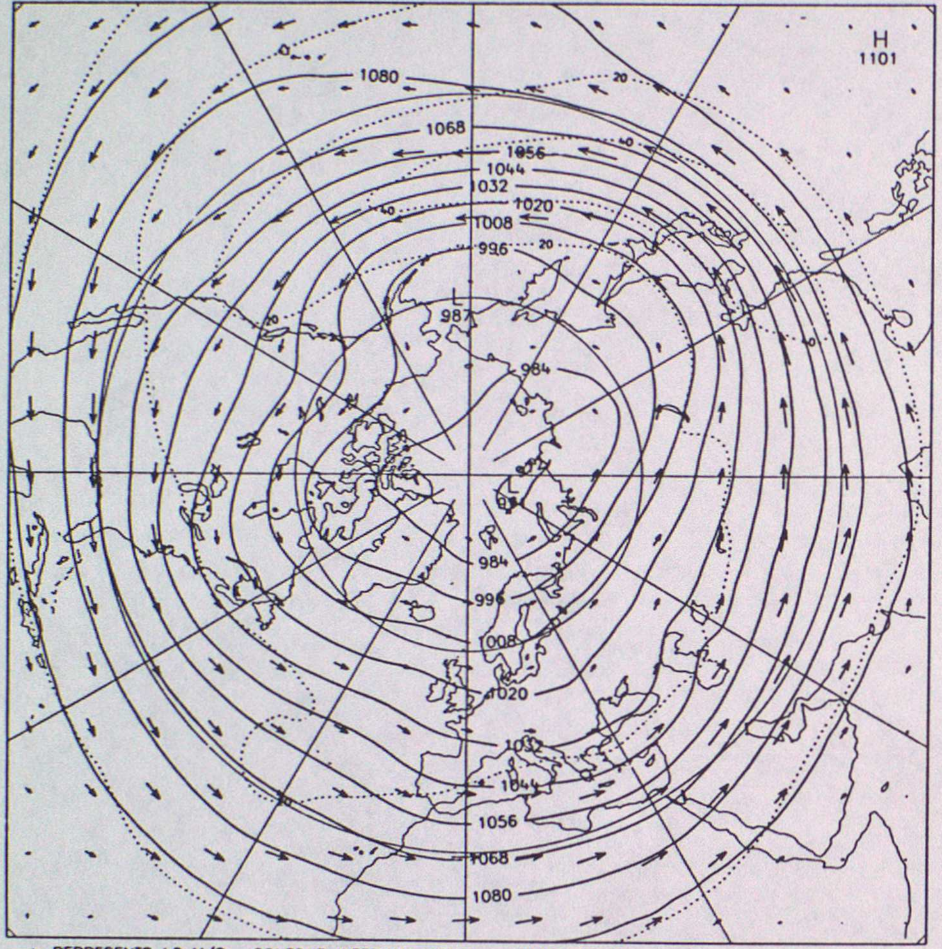
20
516
504
10
492
504
10
516
528
540
552
564
20
576
20
10
H
588

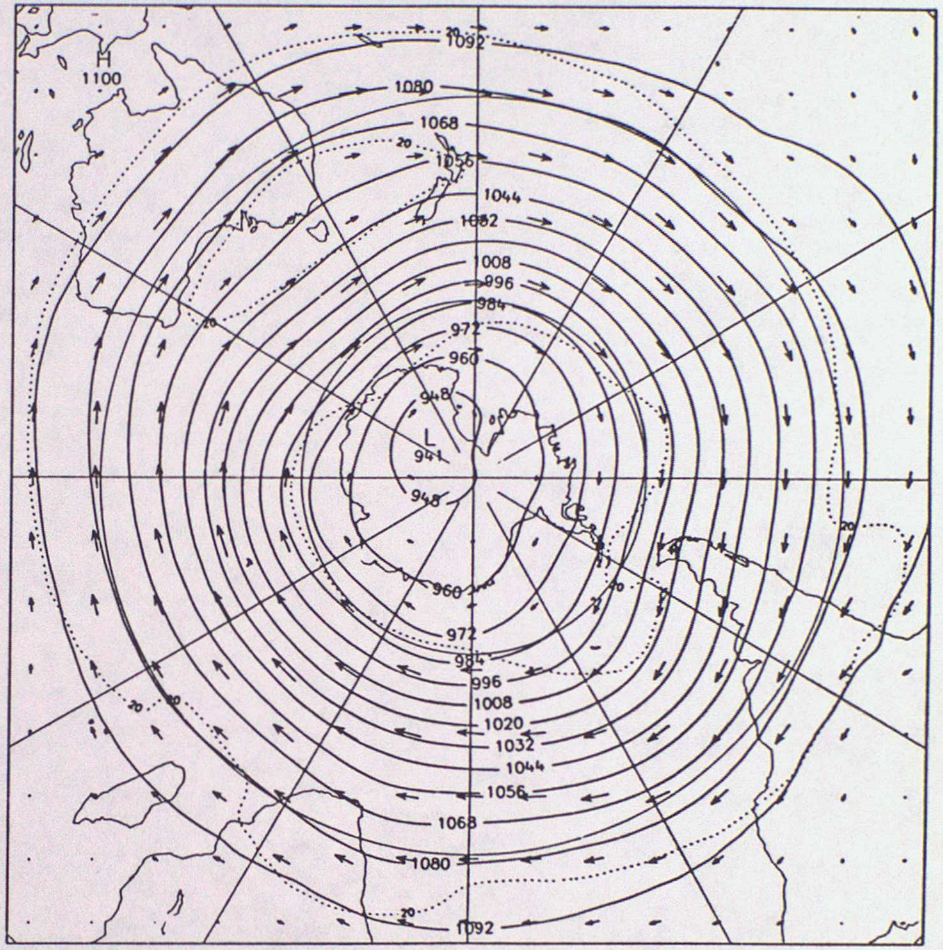
→ REPRESENTS 20 M/S CONTOUR INTERVAL: 120 M UNITS: 10 M

OPERATIONAL ARCHIVE MEANS. MAR/APR/MAY1988
HEIGHTS, WIND ARROWS AND ISOTACHS.
AVERAGE FROM 0Z ON 1/3/1988 DAY 61 TO 12Z ON 31/5/1988 DAY 152
LEVEL: 250 MB


H
1101
1080
20
1068
40
1056
1044
1032
1020
1008
996
L
987
984
984
996
1008
1020
1032
1044
1056
1068
1080

→ REPRESENTS 40 M/S CONTOUR INTERVAL: 120 M UNITS: 10 M

OPERATIONAL ARCHIVE MEANS. MAR/APR/MAY1988
HEIGHTS, WIND ARROWS AND ISOTACHS.
AVERAGE FROM 0Z ON 1/3/1988 DAY 61 TO 12Z ON 31/5/1988 DAY 152
LEVEL: 250 MB


H
1100
20
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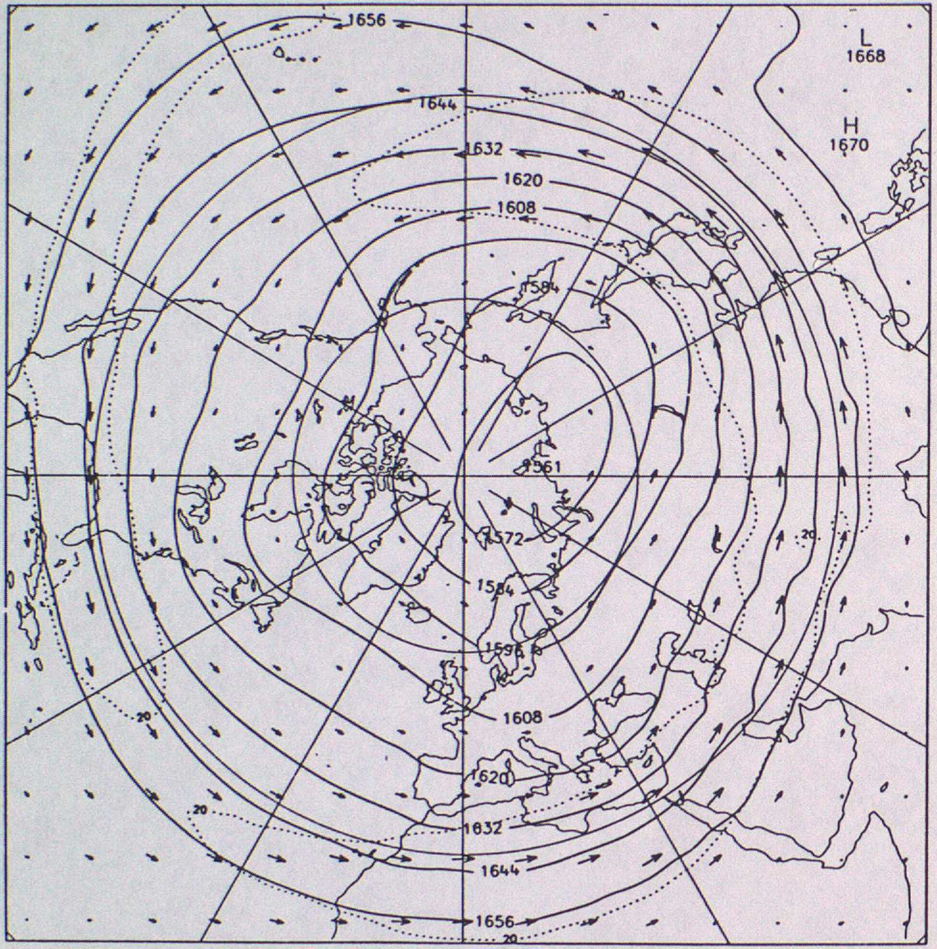
1080
1068
1056
1044
1032
1008
996
984
972
960
948
L
941
948
960
972
984
996
1008
1020
1032
1044
1056
1068
1080
1092

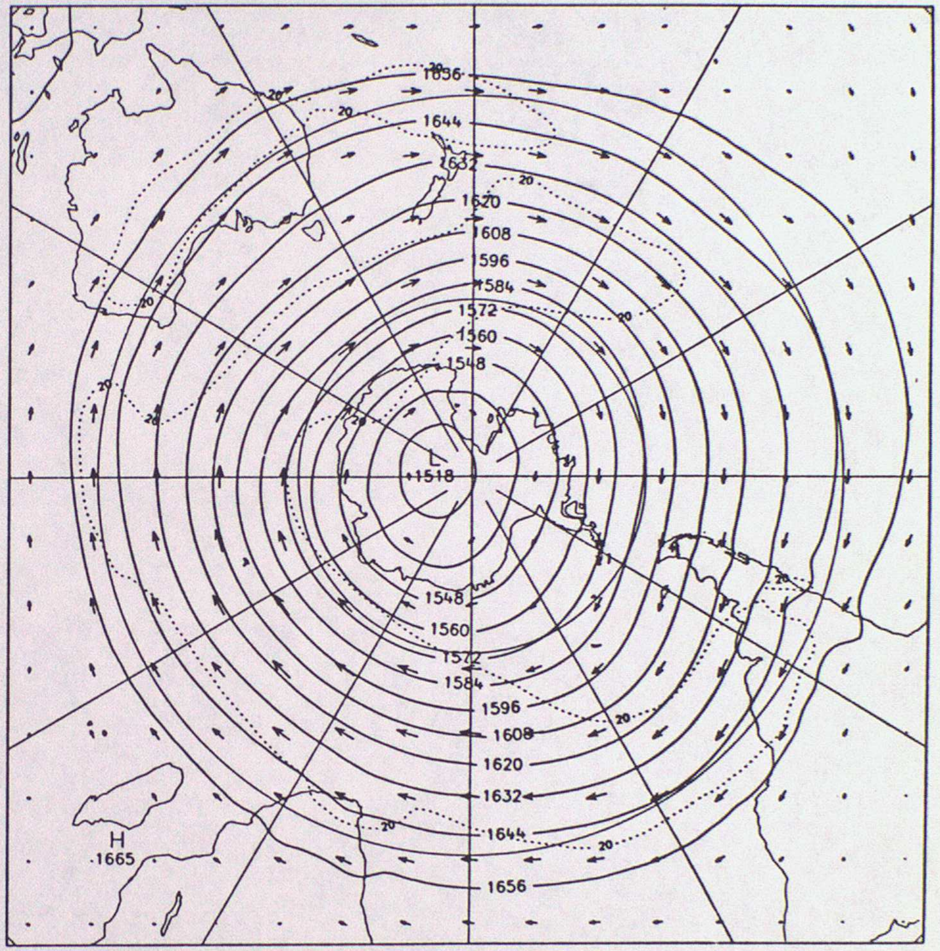
→ REPRESENTS 40 M/S CONTOUR INTERVAL: 120 M UNITS: 10 M

OPERATIONAL ARCHIVE MEANS. MAR/APR/MAY1988
HEIGHTS, WIND ARROWS AND ISOTACHS.
AVERAGE FROM 0Z ON 1/3/1988 DAY 61 TO 12Z ON 31/5/1988 DAY 152
LEVEL: 100 MB


L
1668
H
1670
1656
1644
1632
1620
1608
1584
1561
1572
1584
1596
1608
1620
1632
1644
1656
20

→ REPRESENTS 40 M/S CONTOUR INTERVAL: 120 M UNITS: 10 M

OPERATIONAL ARCHIVE MEANS. MAR/APR/MAY1988
HEIGHTS, WIND ARROWS AND ISOTACHS.
AVERAGE FROM 0Z ON 1/3/1988 DAY 61 TO 12Z ON 31/5/1988 DAY 152
LEVEL: 100 MB


1656
1644
1632
1620
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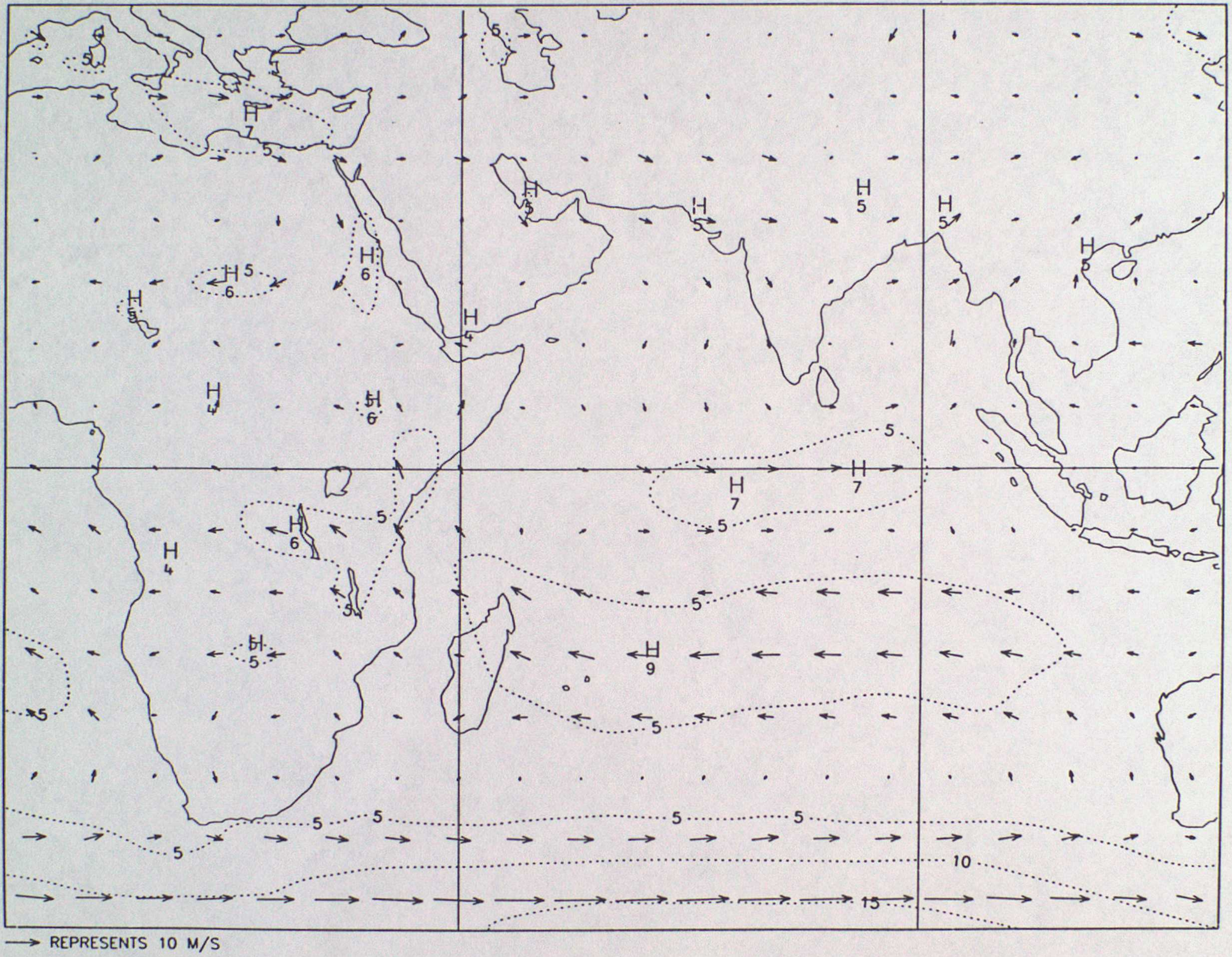
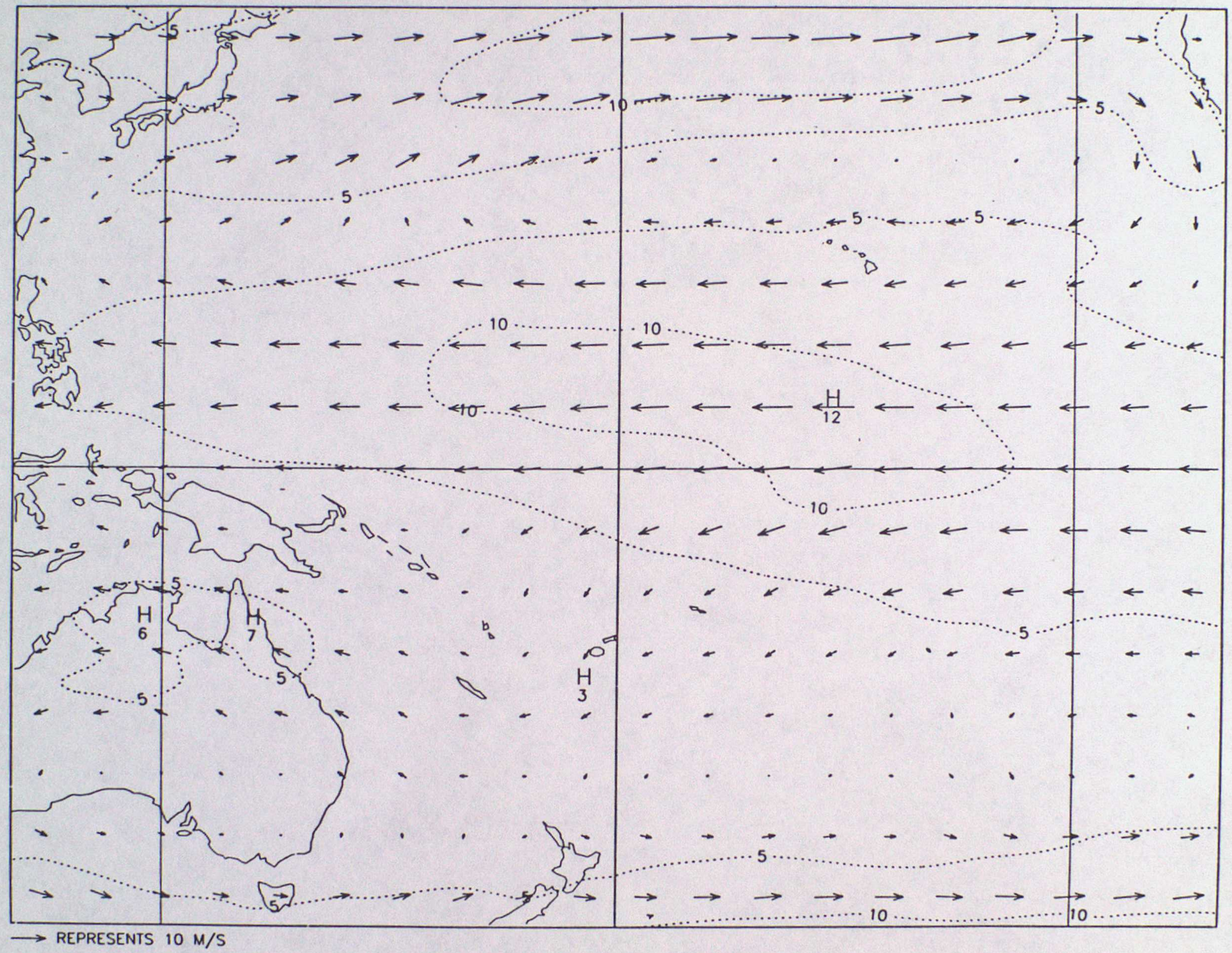
1584
1572
1560
1548
L
1518
1548
1560
1572
1584
1596
1608
1620
1632
1644
1656
H
1665
20

→ REPRESENTS 40 M/S CONTOUR INTERVAL: 120 M UNITS: 10 M

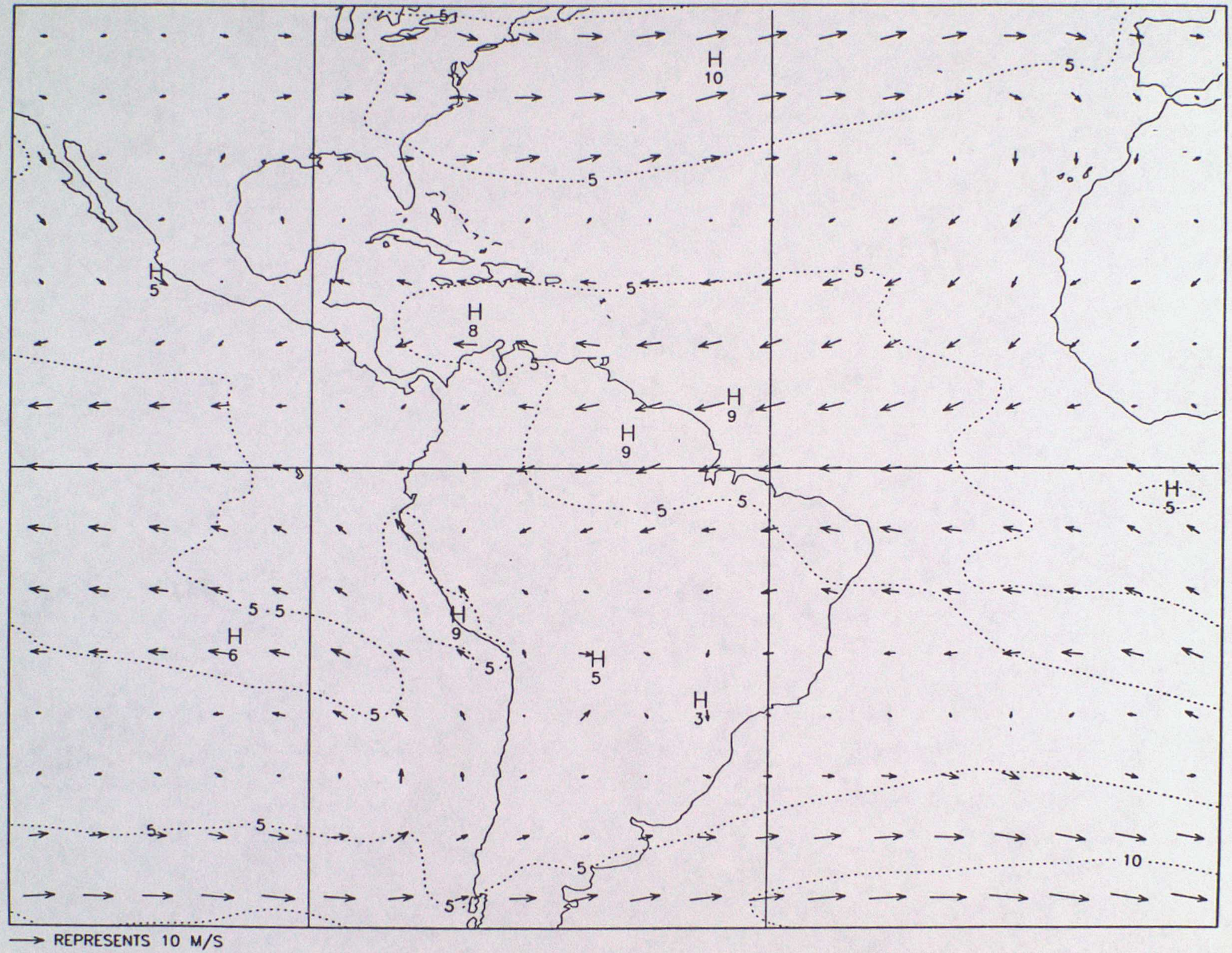
OPERATIONAL ARCHIVE MEANS. MAR/APR/MAY1988
WIND ARROWS AND ISOTACHS BETWEEN LATS. 45 N - 45 S.
AVERAGE FROM 0Z ON 1/3/1988 DAY 61 TO 12Z ON 31/5/1988 DAY 152
850 MBS. BETWEEN LONGS. 0 E - 120 E


H
5
6
7
4
9
10
15
→ REPRESENTS 10 M/S

OPERATIONAL ARCHIVE MEANS. MAR/APR/MAY1988
WIND ARROWS AND ISOTACHS BETWEEN LATS. 45 N - 45 S.
AVERAGE FROM 0Z ON 1/3/1988 DAY 61 TO 12Z ON 31/5/1988 DAY 152
850 MBS. BETWEEN LONGS. 120 E - 120 W


5
10
5
5
5
10
10
10
H
12
10
5
5
H
6
H
7
5
5
H
3
5
5
5
10
10
→ REPRESENTS 10 M/S

OPERATIONAL ARCHIVE MEANS. MAR/APR/MAY1988
WIND ARROWS AND ISOTACHS BETWEEN LATS. 45 N - 45 S.
AVERAGE FROM 0Z ON 1/3/1988 DAY 61 TO 12Z ON 31/5/1988 DAY 152
850 MBS. BETWEEN LONGS. 120 W - 0 W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H 5
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H 8
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H 9
H 9
5
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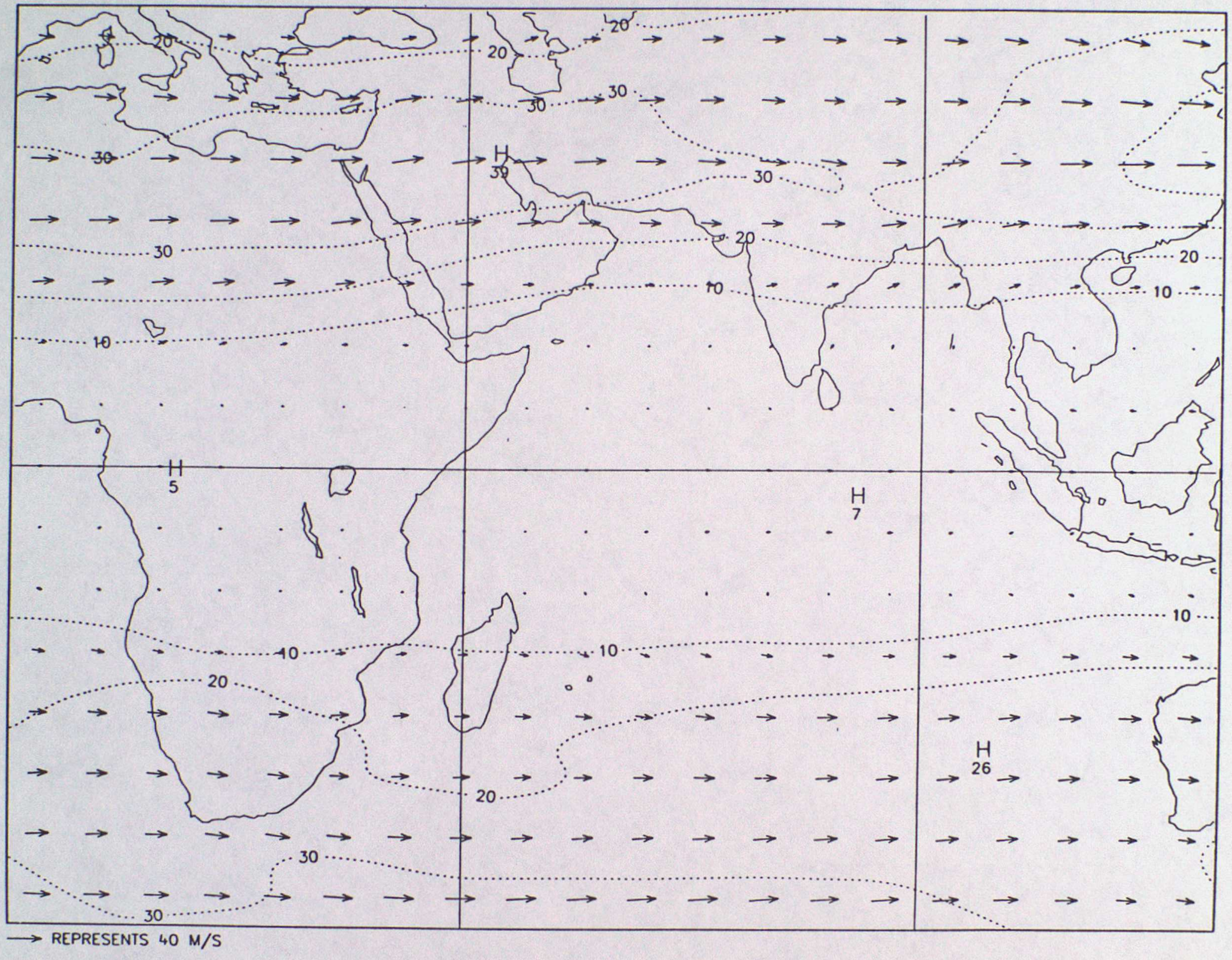
H 5
5 5
H 6
H 9
5
H 5
H 3
5
5
5
5
10
5
5
→ REPRESENTS 10 M/S

OPERATIONAL ARCHIVE MEANS.   MAR/APR/MAY1988
WIND ARROWS AND ISOTACHS BETWEEN LATS. 45 N - 45 S.
AVERAGE FROM 0Z ON 1/3/1988 DAY 61 TO 12Z ON 31/5/1988 DAY 152
250 MBS.   BETWEEN LONGS. 0 E - 120 E


20
20
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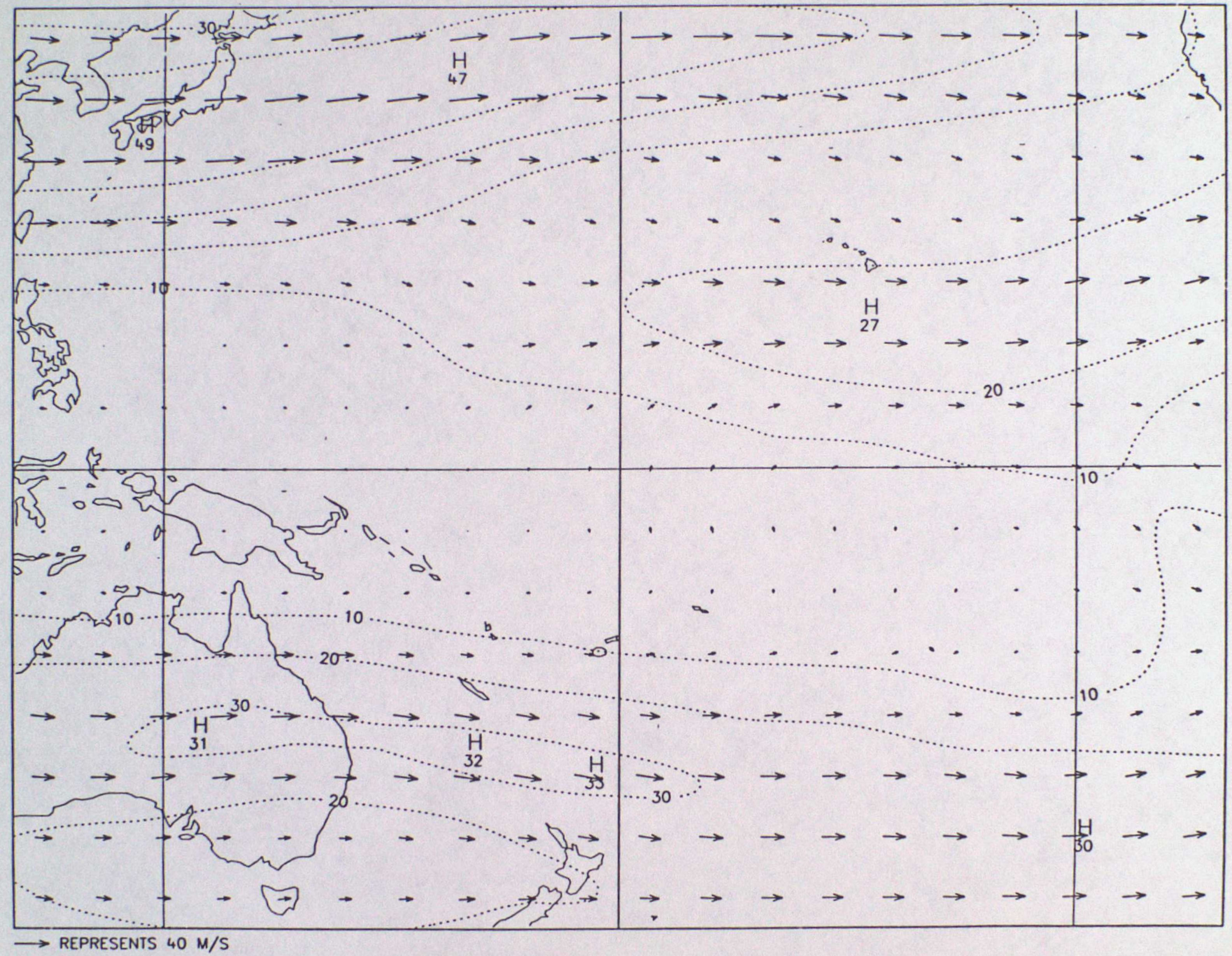
30
30
30
H
39
30
30
20
20
10
10
10
H
5
H
7
10
10
10
20
H
26
20
30
30
→ REPRESENTS 40 M/S

OPERATIONAL ARCHIVE MEANS. MAR/APR/MAY1988
WIND ARROWS AND ISOTACHS BETWEEN LATS. 45 N - 45 S.
AVERAGE FROM 0Z ON 1/3/1988 DAY 61 TO 12Z ON 31/5/1988 DAY 152
250 MBS. BETWEEN LONGS. 120 E - 120 W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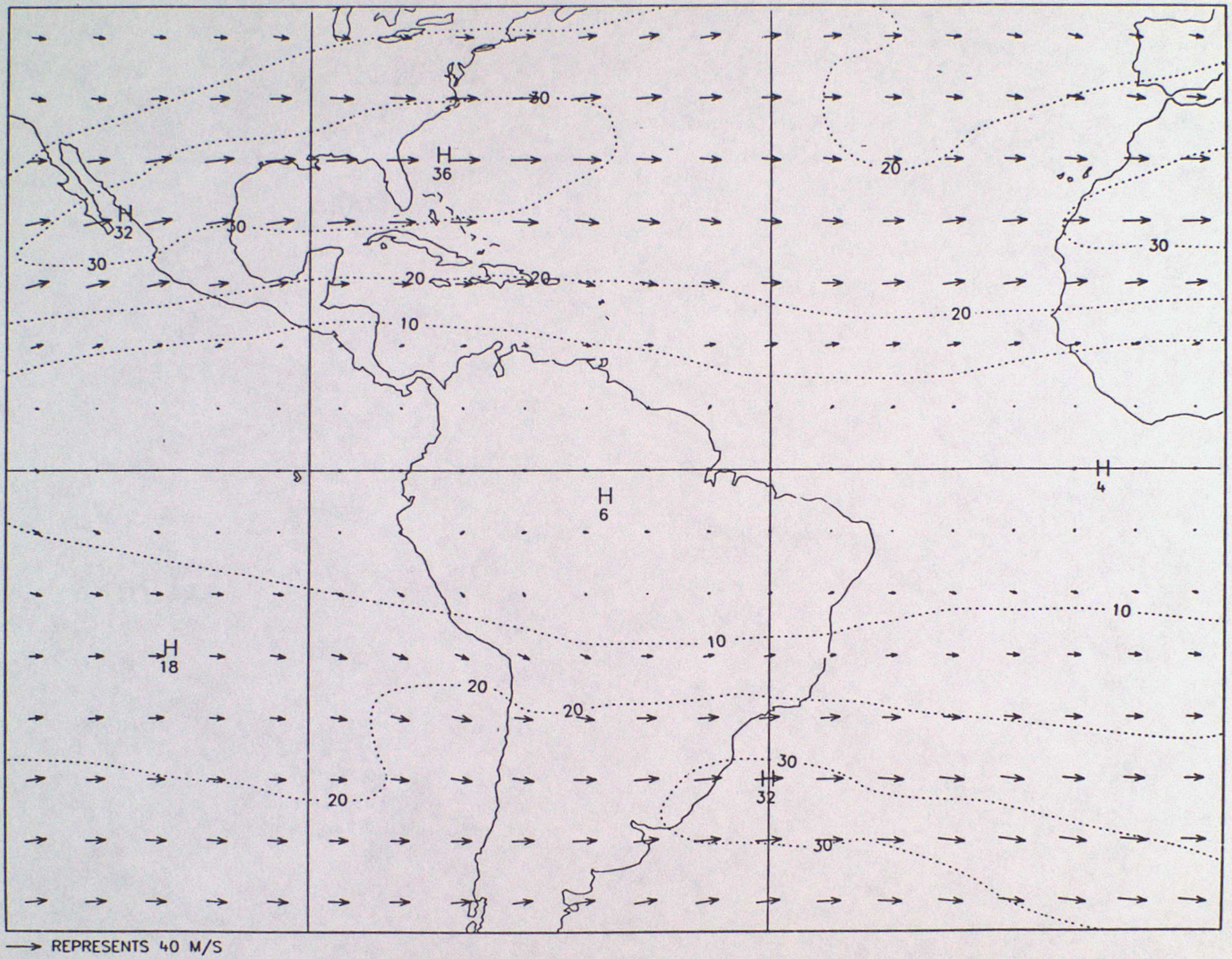
H
47
H
49
10
H
27
20
10
10
10
20
10
H
31
30
H
32
H
33
30
20
H
30
→ REPRESENTS 40 M/S

OPERATIONAL ARCHIVE MEANS.   MAR/APR/MAY1988
WIND ARROWS AND ISOTACHS   BETWEEN LATS. 45 N - 45 S.
AVERAGE FROM   0Z ON 1/3/1988 DAY 61 TO 12Z ON 31/5/1988 DAY 152
250 MBS.   BETWEEN LONGS. 120 W - 0 W


30
H
36
20
H
32
30
30
30
20
20
20
10
H
4
H
6
10
10
H
18
20
20
20
30
H
32
30
→ REPRESENTS 40 M/S